

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

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South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 62.40 | 1000sqft | 1.43 | 62,400.00 | 0 |
| Medical Office Building | 104.00 | 1000sqft | 2.39 | 104,000.00 | 0 |
| Enclosed Parking with Elevator | 41.60 | 1000sqft | 0.96 | 41,600.00 | 0 |
| Quality Restaurant | 124.81 | 1000sqft | 2.87 | 124,810.00 | 0 |
| Condo/Townhouse High Rise | 338.00 | Dwelling Unit | 5.28 | 338,000.00 | 967 |
| Strip Mall | 124.81 | 1000sqft | 2.87 | 124,810.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 9 | | | Operational Year | 2030 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 390.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational yr 2030 is GP buildout yr.

Land Use - Land use assumptions in EIR.

Construction Phase - Assume no demo - all construction on vacant parcels.
All phases estimated for buildout over 9 years.

Grading - Assumptions set forth in EIR.

Architectural Coating - CalEEMod defaults used.

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Vehicle Trips - Trip generation rates are from ITE Trip Generation Manual, 10th edition.

Woodstoves - Assume no fireplaces or woodstoves.

Sequestration - Assume 500 new trees.

Construction Off-road Equipment Mitigation - Tier 4 or better engines to be required

Mobile Land Use Mitigation - Metro light rail station at Pioneer/188th St. assumed by 2030.

100 Jobs/Job acre from Gateway Cities COG, Comp. Econ. Dev.

Strategy (CEDs) for the Gateway Cities Region (11/17/15)

Area Mitigation -

Energy Mitigation - Mitigation measure to include 10% exceedance of Tit. 24 requirements throughout MUO for new construction.

kW required by Cal Green Tit. 24 = 807 kW.

Water Mitigation - Water-efficient plumbing and irrigation required by Tit. 24, local water-conservation requirements.

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|--------------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |

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| | | | |
|-------------------------|--------------|------------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 20.00 | 312.00 |
| tblConstructionPhase | NumDays | 300.00 | 1,252.00 |
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblConstructionPhase | NumDays | 30.00 | 311.00 |
| tblConstructionPhase | NumDays | 20.00 | 1,565.00 |
| tblConstructionPhase | NumDays | 10.00 | 312.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | PhaseEndDate | 1/18/2023 | 12/30/2028 |
| tblConstructionPhase | PhaseEndDate | 11/23/2022 | 12/31/2027 |
| tblConstructionPhase | PhaseEndDate | 8/4/2021 | 1/2/2022 |
| tblConstructionPhase | PhaseEndDate | 9/29/2021 | 12/30/2023 |
| tblConstructionPhase | PhaseEndDate | 12/21/2022 | 12/31/2027 |

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| | | | |
|----------------------|--------------------|------------|------------|
| tblConstructionPhase | PhaseEndDate | 8/18/2021 | 12/31/2022 |
| tblConstructionPhase | PhaseStartDate | 12/22/2022 | 1/3/2028 |
| tblConstructionPhase | PhaseStartDate | 9/30/2021 | 1/2/2024 |
| tblConstructionPhase | PhaseStartDate | 7/8/2021 | 1/3/2022 |
| tblConstructionPhase | PhaseStartDate | 8/19/2021 | 1/3/2023 |
| tblConstructionPhase | PhaseStartDate | 11/24/2022 | 1/2/2023 |
| tblConstructionPhase | PhaseStartDate | 8/5/2021 | 1/3/2022 |
| tblFireplaces | NumberGas | 287.30 | 0.00 |
| tblFireplaces | NumberNoFireplace | 33.80 | 338.00 |
| tblFireplaces | NumberWood | 16.90 | 0.00 |
| tblGrading | AcresOfGrading | 933.00 | 8.00 |
| tblGrading | AcresOfGrading | 468.00 | 15.00 |
| tblGrading | MaterialExported | 0.00 | 9,250.00 |
| tblSequestration | NumberOfNewTrees | 0.00 | 500.00 |
| tblWoodstoves | NumberCatalytic | 16.90 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 16.90 | 0.00 |

2.0 Emissions Summary

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|-----------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|-----------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 3.2353 | 33.1311 | 20.3187 | 0.0398 | 18.3184 | 1.6138 | 19.9322 | 9.9896 | 1.4847 | 11.4742 | 0.0000 | 3,859.602 1 | 3,859.602 1 | 1.1970 | 4.6700e- 003 | 3,890.918 0 |
| 2023 | 4.4782 | 45.1675 | 43.8503 | 0.0898 | 6.4920 | 1.9394 | 8.4315 | 3.4310 | 1.7844 | 5.2154 | 0.0000 | 8,732.524 4 | 8,732.524 4 | 2.6782 | 0.0381 | 8,810.832 0 |
| 2024 | 3.8986 | 28.1187 | 44.8387 | 0.1074 | 5.4164 | 1.1299 | 6.5463 | 1.4526 | 1.0530 | 2.5056 | 0.0000 | 10,731.80 15 | 10,731.80 15 | 1.4917 | 0.4070 | 10,890.39 30 |
| 2025 | 3.6378 | 26.0938 | 43.8412 | 0.1058 | 5.4164 | 0.9930 | 6.4094 | 1.4526 | 0.9253 | 2.3779 | 0.0000 | 10,563.50 76 | 10,563.50 76 | 1.4793 | 0.3957 | 10,718.41 67 |
| 2026 | 3.5659 | 25.9920 | 43.1195 | 0.1043 | 5.4164 | 0.9917 | 6.4081 | 1.4526 | 0.9241 | 2.3767 | 0.0000 | 10,411.56 93 | 10,411.56 93 | 1.4718 | 0.3854 | 10,563.21 08 |
| 2027 | 3.5000 | 25.9005 | 42.5052 | 0.1029 | 5.4164 | 0.9902 | 6.4066 | 1.4526 | 0.9227 | 2.3753 | 0.0000 | 10,270.50 36 | 10,270.50 36 | 1.4651 | 0.3757 | 10,419.07 66 |
| 2028 | 19.5502 | 1.2618 | 3.6983 | 9.4100e- 003 | 0.9054 | 0.0554 | 0.9608 | 0.2401 | 0.0551 | 0.2952 | 0.0000 | 932.2294 | 932.2294 | 0.0277 | 0.0144 | 937.2252 |
| Maximum | 19.5502 | 45.1675 | 44.8387 | 0.1074 | 18.3184 | 1.9394 | 19.9322 | 9.9896 | 1.7844 | 11.4742 | 0.0000 | 10,731.80 15 | 10,731.80 15 | 2.6782 | 0.4070 | 10,890.39 30 |

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2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 17.4196 | 0.3210 | 27.8582 | 1.4800e-003 | | 0.1548 | 0.1548 | | 0.1548 | 0.1548 | 0.0000 | 50.3108 | 50.3108 | 0.0481 | 0.0000 | 51.5132 |
| Energy | 1.0366 | 9.3521 | 7.3936 | 0.0565 | | 0.7162 | 0.7162 | | 0.7162 | 0.7162 | | 11,307.9836 | 11,307.9836 | 0.2167 | 0.2073 | 11,375.1813 |
| Mobile | 41.6502 | 38.8908 | 357.2960 | 0.7320 | 93.0347 | 0.4991 | 93.5338 | 24.7937 | 0.4646 | 25.2582 | | 74,723.4941 | 74,723.4941 | 5.6753 | 3.7025 | 75,968.7299 |
| Total | 60.1064 | 48.5640 | 392.5479 | 0.7901 | 93.0347 | 1.3701 | 94.4048 | 24.7937 | 1.3355 | 26.1292 | 0.0000 | 86,081.7885 | 86,081.7885 | 5.9402 | 3.9098 | 87,395.4244 |

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 | 17.4196 | 0.3210 | 27.8582 | 1.4800e-003 | | 0.1548 | 0.1548 | | 0.1548 | 0.1548 | 0.0000 | 50.3108 | 50.3108 | 0.0481 | 0.0000 | 51.5132 |
| Energy | 1.0089 | 9.1043 | 7.2091 | 0.0550 | | 0.6971 | 0.6971 | | 0.6971 | 0.6971 | | 11,006.2156 | 11,006.2156 | 0.2110 | 0.2018 | 11,071.6200 |
| Mobile | 29.6604 | 21.6127 | 191.5601 | 0.2784 | 33.1408 | 0.2209 | 33.3617 | 8.8320 | 0.2052 | 9.0372 | | 28,414.7047 | 28,414.7047 | 3.2286 | 2.0060 | 29,093.2121 |
| Total | 48.0890 | 31.0380 | 226.6274 | 0.3349 | 33.1408 | 1.0728 | 34.2136 | 8.8320 | 1.0571 | 9.8891 | 0.0000 | 39,471.2311 | 39,471.2311 | 3.4876 | 2.2078 | 40,216.3453 |

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|-------|-------|-------|-------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------|-------|-------|
| Percent Reduction | 19.99 | 36.09 | 42.27 | 57.61 | 64.38 | 21.70 | 63.76 | 64.38 | 20.85 | 62.15 | 0.00 | 54.15 | 54.15 | 41.29 | 43.53 | 53.98 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 1/2/2022 | 5 | 0 | |
| 2 | Site Preparation | Site Preparation | 1/3/2022 | 12/31/2022 | 6 | 312 | |
| 3 | Grading | Grading | 1/3/2023 | 12/30/2023 | 6 | 311 | |
| 4 | Building Construction | Building Construction | 1/2/2024 | 12/31/2027 | 6 | 1252 | |
| 5 | Paving | Paving | 1/2/2023 | 12/31/2027 | 6 | 1565 | |
| 6 | Architectural Coating | Architectural Coating | 1/3/2028 | 12/30/2028 | 6 | 312 | |

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.96

Residential Indoor: 684,450; Residential Outdoor: 228,150; Non-Residential Indoor: 624,030; Non-Residential Outdoor: 208,010; Striped Parking Area: 2,496 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|--------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |

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| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 915.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 406.00 | 111.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 81.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.1172 | 0.0000 | 18.1172 | 9.9362 | 0.0000 | 9.9362 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 18.1172 | 1.6126 | 19.7298 | 9.9362 | 1.4836 | 11.4198 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

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 | 0.0652 | 0.0476 | 0.6210 | 1.7200e-003 | 0.2012 | 1.2000e-003 | 0.2024 | 0.0534 | 1.1100e-003 | 0.0545 | | 173.5403 | 173.5403 | 4.8700e-003 | 4.6700e-003 | 175.0525 |
| Total | 0.0652 | 0.0476 | 0.6210 | 1.7200e-003 | 0.2012 | 1.2000e-003 | 0.2024 | 0.0534 | 1.1100e-003 | 0.0545 | | 173.5403 | 173.5403 | 4.8700e-003 | 4.6700e-003 | 175.0525 |

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3.3 Site Preparation - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 8.1528 | 0.0000 | 8.1528 | 4.4713 | 0.0000 | 4.4713 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4656 | 2.0175 | 20.8690 | 0.0380 | | 0.0621 | 0.0621 | | 0.0621 | 0.0621 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 0.4656 | 2.0175 | 20.8690 | 0.0380 | 8.1528 | 0.0621 | 8.2148 | 4.4713 | 0.0621 | 4.5334 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

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 | 0.0652 | 0.0476 | 0.6210 | 1.7200e-003 | 0.2012 | 1.2000e-003 | 0.2024 | 0.0534 | 1.1100e-003 | 0.0545 | | 173.5403 | 173.5403 | 4.8700e-003 | 4.6700e-003 | 175.0525 |
| Total | 0.0652 | 0.0476 | 0.6210 | 1.7200e-003 | 0.2012 | 1.2000e-003 | 0.2024 | 0.0534 | 1.1100e-003 | 0.0545 | | 173.5403 | 173.5403 | 4.8700e-003 | 4.6700e-003 | 175.0525 |

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3.4 Grading - 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 | | | | | 6.0494 | 0.0000 | 6.0494 | 3.3132 | 0.0000 | 3.3132 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 6.0494 | 1.4245 | 7.4739 | 3.3132 | 1.3105 | 4.6237 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

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 | 5.8100e-003 | 0.3785 | 0.1025 | 1.6900e-003 | 0.0514 | 2.5500e-003 | 0.0540 | 0.0141 | 2.4400e-003 | 0.0165 | | 186.8501 | 186.8501 | 0.0114 | 0.0297 | 195.9925 |
| 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 | 0.0674 | 0.0467 | 0.6357 | 1.8500e-003 | 0.2236 | 1.2600e-003 | 0.2248 | 0.0593 | 1.1600e-003 | 0.0605 | | 186.6357 | 186.6357 | 4.8700e-003 | 4.7900e-003 | 188.1842 |
| Total | 0.0732 | 0.4252 | 0.7382 | 3.5400e-003 | 0.2750 | 3.8100e-003 | 0.2788 | 0.0734 | 3.6000e-003 | 0.0770 | | 373.4858 | 373.4858 | 0.0163 | 0.0345 | 384.1767 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.4 Grading - 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 | | | | | 2.7222 | 0.0000 | 2.7222 | 1.4909 | 0.0000 | 1.4909 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 2.7222 | 0.1015 | 2.8238 | 1.4909 | 0.1015 | 1.5925 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

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 | 5.8100e-003 | 0.3785 | 0.1025 | 1.6900e-003 | 0.0514 | 2.5500e-003 | 0.0540 | 0.0141 | 2.4400e-003 | 0.0165 | | 186.8501 | 186.8501 | 0.0114 | 0.0297 | 195.9925 |
| 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 | 0.0674 | 0.0467 | 0.6357 | 1.8500e-003 | 0.2236 | 1.2600e-003 | 0.2248 | 0.0593 | 1.1600e-003 | 0.0605 | | 186.6357 | 186.6357 | 4.8700e-003 | 4.7900e-003 | 188.1842 |
| Total | 0.0732 | 0.4252 | 0.7382 | 3.5400e-003 | 0.2750 | 3.8100e-003 | 0.2788 | 0.0734 | 3.6000e-003 | 0.0770 | | 373.4858 | 373.4858 | 0.0163 | 0.0345 | 384.1767 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

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 | 0.1114 | 4.2718 | 1.5825 | 0.0199 | 0.7106 | 0.0227 | 0.7333 | 0.2046 | 0.0217 | 0.2263 | | 2,154.6335 | 2,154.6335 | 0.0804 | 0.3133 | 2,249.9935 |
| Worker | 1.2802 | 0.8473 | 12.0195 | 0.0364 | 4.5381 | 0.0245 | 4.5626 | 1.2035 | 0.0225 | 1.2260 | | 3,678.0339 | 3,678.0339 | 0.0896 | 0.0905 | 3,707.2289 |
| Total | 1.3916 | 5.1191 | 13.6020 | 0.0563 | 5.2488 | 0.0471 | 5.2959 | 1.4081 | 0.0442 | 1.4523 | | 5,832.6674 | 5,832.6674 | 0.1700 | 0.4037 | 5,957.2224 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

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 | 0.1114 | 4.2718 | 1.5825 | 0.0199 | 0.7106 | 0.0227 | 0.7333 | 0.2046 | 0.0217 | 0.2263 | | 2,154.6335 | 2,154.6335 | 0.0804 | 0.3133 | 2,249.9935 |
| Worker | 1.2802 | 0.8473 | 12.0195 | 0.0364 | 4.5381 | 0.0245 | 4.5626 | 1.2035 | 0.0225 | 1.2260 | | 3,678.0339 | 3,678.0339 | 0.0896 | 0.0905 | 3,707.2289 |
| Total | 1.3916 | 5.1191 | 13.6020 | 0.0563 | 5.2488 | 0.0471 | 5.2959 | 1.4081 | 0.0442 | 1.4523 | | 5,832.6674 | 5,832.6674 | 0.1700 | 0.4037 | 5,957.2224 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.5 Building Construction - 2025

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1086 | 4.2529 | 1.5592 | 0.0196 | 0.7106 | 0.0228 | 0.7334 | 0.2046 | 0.0218 | 0.2264 | | 2,115.990 7 | 2,115.990 7 | 0.0807 | 0.3080 | 2,209.802 8 |
| Worker | 1.2022 | 0.7615 | 11.2054 | 0.0352 | 4.5381 | 0.0233 | 4.5614 | 1.2035 | 0.0214 | 1.2250 | | 3,553.027 9 | 3,553.027 9 | 0.0810 | 0.0846 | 3,580.252 7 |
| Total | 1.3108 | 5.0144 | 12.7646 | 0.0547 | 5.2487 | 0.0461 | 5.2948 | 1.4081 | 0.0432 | 1.4513 | | 5,669.018 6 | 5,669.018 6 | 0.1616 | 0.3926 | 5,790.055 4 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.5 Building Construction - 2025

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1086 | 4.2529 | 1.5592 | 0.0196 | 0.7106 | 0.0228 | 0.7334 | 0.2046 | 0.0218 | 0.2264 | | 2,115.990 7 | 2,115.990 7 | 0.0807 | 0.3080 | 2,209.802 8 |
| Worker | 1.2022 | 0.7615 | 11.2054 | 0.0352 | 4.5381 | 0.0233 | 4.5614 | 1.2035 | 0.0214 | 1.2250 | | 3,553.027 9 | 3,553.027 9 | 0.0810 | 0.0846 | 3,580.252 7 |
| Total | 1.3108 | 5.0144 | 12.7646 | 0.0547 | 5.2487 | 0.0461 | 5.2948 | 1.4081 | 0.0432 | 1.4513 | | 5,669.018 6 | 5,669.018 6 | 0.1616 | 0.3926 | 5,790.055 4 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1061 | 4.2237 | 1.5408 | 0.0192 | 0.7106 | 0.0227 | 0.7334 | 0.2046 | 0.0218 | 0.2263 | | 2,076.895 4 | 2,076.895 4 | 0.0808 | 0.3027 | 2,169.117 2 |
| Worker | 1.1353 | 0.6915 | 10.5272 | 0.0341 | 4.5381 | 0.0221 | 4.5602 | 1.2035 | 0.0203 | 1.2239 | | 3,444.205 5 | 3,444.205 5 | 0.0737 | 0.0798 | 3,469.812 7 |
| Total | 1.2414 | 4.9151 | 12.0680 | 0.0533 | 5.2487 | 0.0448 | 5.2936 | 1.4081 | 0.0421 | 1.4502 | | 5,521.100 9 | 5,521.100 9 | 0.1544 | 0.3824 | 5,638.929 9 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.5 Building Construction - 2026

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1061 | 4.2237 | 1.5408 | 0.0192 | 0.7106 | 0.0227 | 0.7334 | 0.2046 | 0.0218 | 0.2263 | | 2,076.895 4 | 2,076.895 4 | 0.0808 | 0.3027 | 2,169.117 2 |
| Worker | 1.1353 | 0.6915 | 10.5272 | 0.0341 | 4.5381 | 0.0221 | 4.5602 | 1.2035 | 0.0203 | 1.2239 | | 3,444.205 5 | 3,444.205 5 | 0.0737 | 0.0798 | 3,469.812 7 |
| Total | 1.2414 | 4.9151 | 12.0680 | 0.0533 | 5.2487 | 0.0448 | 5.2936 | 1.4081 | 0.0421 | 1.4502 | | 5,521.100 9 | 5,521.100 9 | 0.1544 | 0.3824 | 5,638.929 9 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.5 Building Construction - 2027

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1039 | 4.1935 | 1.5253 | 0.0188 | 0.7106 | 0.0227 | 0.7333 | 0.2046 | 0.0217 | 0.2263 | | 2,036.103 0 | 2,036.103 0 | 0.0806 | 0.2971 | 2,126.662 5 |
| Worker | 1.0738 | 0.6324 | 9.9497 | 0.0331 | 4.5381 | 0.0207 | 4.5589 | 1.2035 | 0.0191 | 1.2226 | | 3,347.504 8 | 3,347.504 8 | 0.0674 | 0.0757 | 3,371.756 0 |
| Total | 1.1778 | 4.8258 | 11.4750 | 0.0519 | 5.2487 | 0.0434 | 5.2921 | 1.4081 | 0.0407 | 1.4489 | | 5,383.607 8 | 5,383.607 8 | 0.1480 | 0.3729 | 5,498.418 5 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.5 Building Construction - 2027

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1039 | 4.1935 | 1.5253 | 0.0188 | 0.7106 | 0.0227 | 0.7333 | 0.2046 | 0.0217 | 0.2263 | | 2,036.103 0 | 2,036.103 0 | 0.0806 | 0.2971 | 2,126.662 5 |
| Worker | 1.0738 | 0.6324 | 9.9497 | 0.0331 | 4.5381 | 0.0207 | 4.5589 | 1.2035 | 0.0191 | 1.2226 | | 3,347.504 8 | 3,347.504 8 | 0.0674 | 0.0757 | 3,371.756 0 |
| Total | 1.1778 | 4.8258 | 11.4750 | 0.0519 | 5.2487 | 0.0434 | 5.2921 | 1.4081 | 0.0407 | 1.4489 | | 5,383.607 8 | 5,383.607 8 | 0.1480 | 0.3729 | 5,498.418 5 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 Paving - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |

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 | 0.0505 | 0.0351 | 0.4768 | 1.3800e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.7000e-004 | 0.0453 | | 139.9767 | 139.9767 | 3.6500e-003 | 3.5900e-003 | 141.1381 |
| Total | 0.0505 | 0.0351 | 0.4768 | 1.3800e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.7000e-004 | 0.0453 | | 139.9767 | 139.9767 | 3.6500e-003 | 3.5900e-003 | 141.1381 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.584 1 | 2,207.584 1 | 0.7140 | | 2,225.433 6 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.584 1 | 2,207.584 1 | 0.7140 | | 2,225.433 6 |

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 | 0.0505 | 0.0351 | 0.4768 | 1.3800e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.7000e-004 | 0.0453 | | 139.9767 | 139.9767 | 3.6500e-003 | 3.5900e-003 | 141.1381 |
| Total | 0.0505 | 0.0351 | 0.4768 | 1.3800e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.7000e-004 | 0.0453 | | 139.9767 | 139.9767 | 3.6500e-003 | 3.5900e-003 | 141.1381 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

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 | 0.0473 | 0.0313 | 0.4441 | 1.3400e-003 | 0.1677 | 9.0000e-004 | 0.1686 | 0.0445 | 8.3000e-004 | 0.0453 | | 135.8880 | 135.8880 | 3.3100e-003 | 3.3400e-003 | 136.9666 |
| Total | 0.0473 | 0.0313 | 0.4441 | 1.3400e-003 | 0.1677 | 9.0000e-004 | 0.1686 | 0.0445 | 8.3000e-004 | 0.0453 | | 135.8880 | 135.8880 | 3.3100e-003 | 3.3400e-003 | 136.9666 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

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 | 0.0473 | 0.0313 | 0.4441 | 1.3400e-003 | 0.1677 | 9.0000e-004 | 0.1686 | 0.0445 | 8.3000e-004 | 0.0453 | | 135.8880 | 135.8880 | 3.3100e-003 | 3.3400e-003 | 136.9666 |
| Total | 0.0473 | 0.0313 | 0.4441 | 1.3400e-003 | 0.1677 | 9.0000e-004 | 0.1686 | 0.0445 | 8.3000e-004 | 0.0453 | | 135.8880 | 135.8880 | 3.3100e-003 | 3.3400e-003 | 136.9666 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 Paving - 2025

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

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 | 0.0444 | 0.0281 | 0.4140 | 1.3000e-003 | 0.1677 | 8.6000e-004 | 0.1685 | 0.0445 | 7.9000e-004 | 0.0453 | | 131.2695 | 131.2695 | 2.9900e-003 | 3.1200e-003 | 132.2754 |
| Total | 0.0444 | 0.0281 | 0.4140 | 1.3000e-003 | 0.1677 | 8.6000e-004 | 0.1685 | 0.0445 | 7.9000e-004 | 0.0453 | | 131.2695 | 131.2695 | 2.9900e-003 | 3.1200e-003 | 132.2754 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 Paving - 2025

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

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 | 0.0444 | 0.0281 | 0.4140 | 1.3000e-003 | 0.1677 | 8.6000e-004 | 0.1685 | 0.0445 | 7.9000e-004 | 0.0453 | | 131.2695 | 131.2695 | 2.9900e-003 | 3.1200e-003 | 132.2754 |
| Total | 0.0444 | 0.0281 | 0.4140 | 1.3000e-003 | 0.1677 | 8.6000e-004 | 0.1685 | 0.0445 | 7.9000e-004 | 0.0453 | | 131.2695 | 131.2695 | 2.9900e-003 | 3.1200e-003 | 132.2754 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 Paving - 2026

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

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 | 0.0419 | 0.0256 | 0.3889 | 1.2600e-003 | 0.1677 | 8.2000e-004 | 0.1685 | 0.0445 | 7.5000e-004 | 0.0452 | | 127.2490 | 127.2490 | 2.7200e-003 | 2.9500e-003 | 128.1951 |
| Total | 0.0419 | 0.0256 | 0.3889 | 1.2600e-003 | 0.1677 | 8.2000e-004 | 0.1685 | 0.0445 | 7.5000e-004 | 0.0452 | | 127.2490 | 127.2490 | 2.7200e-003 | 2.9500e-003 | 128.1951 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 Paving - 2026

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

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 | 0.0419 | 0.0256 | 0.3889 | 1.2600e-003 | 0.1677 | 8.2000e-004 | 0.1685 | 0.0445 | 7.5000e-004 | 0.0452 | | 127.2490 | 127.2490 | 2.7200e-003 | 2.9500e-003 | 128.1951 |
| Total | 0.0419 | 0.0256 | 0.3889 | 1.2600e-003 | 0.1677 | 8.2000e-004 | 0.1685 | 0.0445 | 7.5000e-004 | 0.0452 | | 127.2490 | 127.2490 | 2.7200e-003 | 2.9500e-003 | 128.1951 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 Paving - 2027

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0397 | 0.0234 | 0.3676 | 1.2200e-003 | 0.1677 | 7.7000e-004 | 0.1684 | 0.0445 | 7.0000e-004 | 0.0452 | | 123.6763 | 123.6763 | 2.4900e-003 | 2.8000e-003 | 124.5723 |
| Total | 0.0397 | 0.0234 | 0.3676 | 1.2200e-003 | 0.1677 | 7.7000e-004 | 0.1684 | 0.0445 | 7.0000e-004 | 0.0452 | | 123.6763 | 123.6763 | 2.4900e-003 | 2.8000e-003 | 124.5723 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.6 Paving - 2027

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0397 | 0.0234 | 0.3676 | 1.2200e-003 | 0.1677 | 7.7000e-004 | 0.1684 | 0.0445 | 7.0000e-004 | 0.0452 | | 123.6763 | 123.6763 | 2.4900e-003 | 2.8000e-003 | 124.5723 |
| Total | 0.0397 | 0.0234 | 0.3676 | 1.2200e-003 | 0.1677 | 7.7000e-004 | 0.1684 | 0.0445 | 7.0000e-004 | 0.0452 | | 123.6763 | 123.6763 | 2.4900e-003 | 2.8000e-003 | 124.5723 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.7 Architectural Coating - 2028

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 | 19.1764 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 19.3472 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

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 | 0.2030 | 0.1163 | 1.8891 | 6.4400e-003 | 0.9054 | 3.8500e-003 | 0.9092 | 0.2401 | 3.5400e-003 | 0.2437 | | 650.7814 | 650.7814 | 0.0124 | 0.0144 | 655.3934 |
| Total | 0.2030 | 0.1163 | 1.8891 | 6.4400e-003 | 0.9054 | 3.8500e-003 | 0.9092 | 0.2401 | 3.5400e-003 | 0.2437 | | 650.7814 | 650.7814 | 0.0124 | 0.0144 | 655.3934 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

3.7 Architectural Coating - 2028

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 | 19.1764 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 19.2061 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

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 | 0.2030 | 0.1163 | 1.8891 | 6.4400e-003 | 0.9054 | 3.8500e-003 | 0.9092 | 0.2401 | 3.5400e-003 | 0.2437 | | 650.7814 | 650.7814 | 0.0124 | 0.0144 | 655.3934 |
| Total | 0.2030 | 0.1163 | 1.8891 | 6.4400e-003 | 0.9054 | 3.8500e-003 | 0.9092 | 0.2401 | 3.5400e-003 | 0.2437 | | 650.7814 | 650.7814 | 0.0124 | 0.0144 | 655.3934 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, 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

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Integrate Below Market Rate Housing
- Limit Parking Supply

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 29.6604 | 21.6127 | 191.5601 | 0.2784 | 33.1408 | 0.2209 | 33.3617 | 8.8320 | 0.2052 | 9.0372 | | 28,414.70 47 | 28,414.70 47 | 3.2286 | 2.0060 | 29,093.21 21 |
| Unmitigated | 41.6502 | 38.8908 | 357.2960 | 0.7320 | 93.0347 | 0.4991 | 93.5338 | 24.7937 | 0.4646 | 25.2582 | | 74,723.49 41 | 74,723.49 41 | 5.6753 | 3.7025 | 75,968.72 99 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|--------------------------------|-------------------------|-----------|---------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 1,838.72 | 1,659.58 | 1382.42 | 5,972,986 | 2,127,698 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 607.78 | 137.90 | 43.68 | 1,482,086 | 527,949 |
| Medical Office Building | 3,619.20 | 891.28 | 147.68 | 7,090,483 | 2,525,773 |
| Quality Restaurant | 10,464.07 | 11,237.89 | 8982.58 | 14,753,055 | 5,255,335 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|--------------|-------------------------|------------------|------------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Strip Mall | 5,531.58 | 5,247.01 | 2549.87 | 9,636,584 | 3,432,745 |
| Total | 22,061.35 | 19,173.67 | 13,106.22 | 38,935,193 | 13,869,499 |

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 |
| Condo/Townhouse High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Medical Office Building | 16.60 | 8.40 | 6.90 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Quality Restaurant | 16.60 | 8.40 | 6.90 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| 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 |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Condo/Townhouse High Rise | 0.538188 | 0.064794 | 0.188198 | 0.125732 | 0.023928 | 0.006891 | 0.012829 | 0.008420 | 0.000820 | 0.000476 | 0.025563 | 0.000761 | 0.003401 |
| Enclosed Parking with Elevator | 0.538188 | 0.064794 | 0.188198 | 0.125732 | 0.023928 | 0.006891 | 0.012829 | 0.008420 | 0.000820 | 0.000476 | 0.025563 | 0.000761 | 0.003401 |
| General Office Building | 0.538188 | 0.064794 | 0.188198 | 0.125732 | 0.023928 | 0.006891 | 0.012829 | 0.008420 | 0.000820 | 0.000476 | 0.025563 | 0.000761 | 0.003401 |
| Medical Office Building | 0.538188 | 0.064794 | 0.188198 | 0.125732 | 0.023928 | 0.006891 | 0.012829 | 0.008420 | 0.000820 | 0.000476 | 0.025563 | 0.000761 | 0.003401 |
| Quality Restaurant | 0.538188 | 0.064794 | 0.188198 | 0.125732 | 0.023928 | 0.006891 | 0.012829 | 0.008420 | 0.000820 | 0.000476 | 0.025563 | 0.000761 | 0.003401 |
| Strip Mall | 0.538188 | 0.064794 | 0.188198 | 0.125732 | 0.023928 | 0.006891 | 0.012829 | 0.008420 | 0.000820 | 0.000476 | 0.025563 | 0.000761 | 0.003401 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Natural Gas Mitigated | 1.0089 | 9.1043 | 7.2091 | 0.0550 | | 0.6971 | 0.6971 | | 0.6971 | 0.6971 | | 11,006.2156 | 11,006.2156 | 0.2110 | 0.2018 | 11,071.6200 |
| Natural Gas Unmitigated | 1.0366 | 9.3521 | 7.3936 | 0.0565 | | 0.7162 | 0.7162 | | 0.7162 | 0.7162 | | 11,307.9836 | 11,307.9836 | 0.2167 | 0.2073 | 11,375.1813 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

5.2 Energy by Land Use - NaturalGas

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 | | | | | |
| Condo/Townhouse High Rise | 12100 | 0.1305 | 1.1151 | 0.4745 | 7.1200e-003 | | 0.0902 | 0.0902 | | 0.0902 | 0.0902 | | 1,423.5318 | 1,423.5318 | 0.0273 | 0.0261 | 1,431.9911 |
| Enclosed Parking with Elevator | 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 |
| General Office Building | 1762.59 | 0.0190 | 0.1728 | 0.1452 | 1.0400e-003 | | 0.0131 | 0.0131 | | 0.0131 | 0.0131 | | 207.3631 | 207.3631 | 3.9700e-003 | 3.8000e-003 | 208.5954 |
| Medical Office Building | 2937.64 | 0.0317 | 0.2880 | 0.2419 | 1.7300e-003 | | 0.0219 | 0.0219 | | 0.0219 | 0.0219 | | 345.6052 | 345.6052 | 6.6200e-003 | 6.3400e-003 | 347.6589 |
| Quality Restaurant | 78760.2 | 0.8494 | 7.7216 | 6.4861 | 0.0463 | | 0.5868 | 0.5868 | | 0.5868 | 0.5868 | | 9,265.9105 | 9,265.9105 | 0.1776 | 0.1699 | 9,320.9732 |
| Strip Mall | 557.371 | 6.0100e-003 | 0.0546 | 0.0459 | 3.3000e-004 | | 4.1500e-003 | 4.1500e-003 | | 4.1500e-003 | 4.1500e-003 | | 65.5730 | 65.5730 | 1.2600e-003 | 1.2000e-003 | 65.9627 |
| Total | | 1.0366 | 9.3521 | 7.3936 | 0.0566 | | 0.7162 | 0.7162 | | 0.7162 | 0.7162 | | 11,307.9836 | 11,307.9836 | 0.2167 | 0.2073 | 11,375.1813 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse High Rise | 11.4812 | 0.1238 | 1.0581 | 0.4502 | 6.7500e-003 | | 0.0856 | 0.0856 | | 0.0856 | 0.0856 | | 1,350.7287 | 1,350.7287 | 0.0259 | 0.0248 | 1,358.7554 |
| Enclosed Parking with Elevator | 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 |
| General Office Building | 1.593 | 0.0172 | 0.1562 | 0.1312 | 9.4000e-004 | | 0.0119 | 0.0119 | | 0.0119 | 0.0119 | | 187.4112 | 187.4112 | 3.5900e-003 | 3.4400e-003 | 188.5249 |
| Medical Office Building | 2.65499 | 0.0286 | 0.2603 | 0.2187 | 1.5600e-003 | | 0.0198 | 0.0198 | | 0.0198 | 0.0198 | | 312.3520 | 312.3520 | 5.9900e-003 | 5.7300e-003 | 314.2081 |
| Quality Restaurant | 77.3053 | 0.8337 | 7.5790 | 6.3663 | 0.0455 | | 0.5760 | 0.5760 | | 0.5760 | 0.5760 | | 9,094.7367 | 9,094.7367 | 0.1743 | 0.1667 | 9,148.7822 |
| Strip Mall | 0.518389 | 5.5900e-003 | 0.0508 | 0.0427 | 3.0000e-004 | | 3.8600e-003 | 3.8600e-003 | | 3.8600e-003 | 3.8600e-003 | | 60.9869 | 60.9869 | 1.1700e-003 | 1.1200e-003 | 61.3494 |
| Total | | 1.0089 | 9.1043 | 7.2091 | 0.0550 | | 0.6971 | 0.6971 | | 0.6971 | 0.6971 | | 11,006.2156 | 11,006.2156 | 0.2110 | 0.2018 | 11,071.6200 |

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 17.4196 | 0.3210 | 27.8582 | 1.4800e-003 | | 0.1548 | 0.1548 | | 0.1548 | 0.1548 | 0.0000 | 50.3108 | 50.3108 | 0.0481 | 0.0000 | 51.5132 |
| Unmitigated | 17.4196 | 0.3210 | 27.8582 | 1.4800e-003 | | 0.1548 | 0.1548 | | 0.1548 | 0.1548 | 0.0000 | 50.3108 | 50.3108 | 0.0481 | 0.0000 | 51.5132 |

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 | 1.6392 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 14.9443 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.8361 | 0.3210 | 27.8582 | 1.4800e-003 | | 0.1548 | 0.1548 | | 0.1548 | 0.1548 | | 50.3108 | 50.3108 | 0.0481 | | 51.5132 |
| Total | 17.4196 | 0.3210 | 27.8582 | 1.4800e-003 | | 0.1548 | 0.1548 | | 0.1548 | 0.1548 | 0.0000 | 50.3108 | 50.3108 | 0.0481 | 0.0000 | 51.5132 |

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 1.6392 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 14.9443 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.8361 | 0.3210 | 27.8582 | 1.4800e-003 | | 0.1548 | 0.1548 | | 0.1548 | 0.1548 | | 50.3108 | 50.3108 | 0.0481 | | 51.5132 |
| Total | 17.4196 | 0.3210 | 27.8582 | 1.4800e-003 | | 0.1548 | 0.1548 | | 0.1548 | 0.1548 | 0.0000 | 50.3108 | 50.3108 | 0.0481 | 0.0000 | 51.5132 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

Artesia Mixed-Use Overlay SEIR revised - South Coast Air Basin, Winter

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

8.0 Waste Detail

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
