

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**Strathmore and Garvey Mixed Use**

**South Coast Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                      | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Mid Rise            | 93.00  | Dwelling Unit | 1.21        | 93,000.00          | 266        |
| Office Park                    | 12.80  | 1000sqft      | 0.00        | 12,800.00          | 0          |
| Strip Mall                     | 6.04   | 1000sqft      | 0.00        | 6,040.00           | 0          |
| Enclosed Parking with Elevator | 208.00 | Space         | 0.00        | 83,200.00          | 0          |

**1.2 Other Project Characteristics**

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 31    |
| <b>Climate Zone</b>            | 9                          |                                |       | <b>Operational Year</b>          | 2024  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 390.98                     | <b>CH4 Intensity (lb/MWhr)</b> | 0.033 | <b>N2O Intensity (lb/MWhr)</b>   | 0.004 |

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

Project Characteristics -

Land Use - total lot size is 1.21 acres. parking, office and retail use on lower levels

Construction Phase - Demo: 20 days, Grading: 4 days, Construction: 200 days, Paving: 20 days

Demolition - 10,000 sf structure to be demolished

Construction Off-road Equipment Mitigation -

Area Mitigation -

Vehicle Trips - apt 4.54, office 10.30, retail 52.65 per traffic analysis

Grading - 1.21 acres

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| Table Name           | Column Name    | Default Value | New Value  |
|----------------------|----------------|---------------|------------|
| tblConstructionPhase | NumDays        | 10.00         | 20.00      |
| tblConstructionPhase | PhaseStartDate | 11/28/2023    | 11/14/2023 |
| tblGrading           | AcresOfGrading | 4.00          | 1.21       |
| tblLandUse           | LotAcreage     | 2.45          | 1.21       |
| tblLandUse           | LotAcreage     | 0.29          | 0.00       |
| tblLandUse           | LotAcreage     | 0.14          | 0.00       |
| tblLandUse           | LotAcreage     | 1.87          | 0.00       |
| tblVehicleTrips      | ST_TR          | 4.91          | 4.54       |
| tblVehicleTrips      | ST_TR          | 1.64          | 10.30      |
| tblVehicleTrips      | ST_TR          | 42.04         | 52.65      |
| tblVehicleTrips      | SU_TR          | 4.09          | 4.54       |
| tblVehicleTrips      | SU_TR          | 0.76          | 10.30      |
| tblVehicleTrips      | SU_TR          | 20.43         | 52.65      |
| tblVehicleTrips      | WD_TR          | 5.44          | 4.54       |
| tblVehicleTrips      | WD_TR          | 11.07         | 10.30      |
| tblVehicleTrips      | WD_TR          | 44.32         | 52.65      |

**2.0 Emissions Summary**

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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         | 27.0596        | 2.0182        | 54.9878        | 0.1211        |               | 7.1467        | 7.1467         |                | 7.1467        | 7.1467        | 871.1234        | 1,687.8650        | 2,558.9884        | 2.6112        | 0.0591        | 2,641.8890        |
| Energy       | 0.0399         | 0.3428        | 0.1608         | 2.1700e-003   |               | 0.0275        | 0.0275         |                | 0.0275        | 0.0275        |                 | 434.8332          | 434.8332          | 8.3300e-003   | 7.9700e-003   | 437.4172          |
| Mobile       | 2.3507         | 2.3676        | 22.5052        | 0.0501        | 5.2528        | 0.0357        | 5.2885         | 1.3997         | 0.0331        | 1.4329        |                 | 5,195.6324        | 5,195.6324        | 0.3254        | 0.2142        | 5,267.5987        |
| <b>Total</b> | <b>29.4502</b> | <b>4.7286</b> | <b>77.6538</b> | <b>0.1734</b> | <b>5.2528</b> | <b>7.2099</b> | <b>12.4627</b> | <b>1.3997</b>  | <b>7.2074</b> | <b>8.6071</b> | <b>871.1234</b> | <b>7,318.3307</b> | <b>8,189.4541</b> | <b>2.9449</b> | <b>0.2813</b> | <b>8,346.9049</b> |

**Mitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 2.6903        | 0.0886        | 7.6925         | 4.1000e-004   |               | 0.0426        | 0.0426        |                | 0.0426        | 0.0426        | 0.0000        | 13.8650           | 13.8650           | 0.0134        | 0.0000        | 14.1996           |
| Energy       | 0.0399        | 0.3428        | 0.1608         | 2.1700e-003   |               | 0.0275        | 0.0275        |                | 0.0275        | 0.0275        |               | 434.8332          | 434.8332          | 8.3300e-003   | 7.9700e-003   | 437.4172          |
| Mobile       | 2.3507        | 2.3676        | 22.5052        | 0.0501        | 5.2528        | 0.0357        | 5.2885        | 1.3997         | 0.0331        | 1.4329        |               | 5,195.6324        | 5,195.6324        | 0.3254        | 0.2142        | 5,267.5987        |
| <b>Total</b> | <b>5.0809</b> | <b>2.7990</b> | <b>30.3585</b> | <b>0.0527</b> | <b>5.2528</b> | <b>0.1058</b> | <b>5.3586</b> | <b>1.3997</b>  | <b>0.1033</b> | <b>1.5030</b> | <b>0.0000</b> | <b>5,644.3307</b> | <b>5,644.3307</b> | <b>0.3471</b> | <b>0.2222</b> | <b>5,719.2156</b> |

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|                   | ROG   | NOx   | CO    | SO2   | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4   | N2O   | CO2e  |
|-------------------|-------|-------|-------|-------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------|-------|-------|
| Percent Reduction | 82.75 | 40.81 | 60.91 | 69.60 | 0.00          | 98.53        | 57.00      | 0.00           | 98.57         | 82.54       | 100.00   | 22.87    | 31.08     | 88.21 | 21.02 | 31.48 |

**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            | 1/1/2023   | 1/27/2023  | 5             | 20       |                   |
| 2            | Grading               | Grading               | 2/1/2023   | 2/6/2023   | 5             | 4        |                   |
| 3            | Building Construction | Building Construction | 2/7/2023   | 11/13/2023 | 5             | 200      |                   |
| 4            | Paving                | Paving                | 11/14/2023 | 11/27/2023 | 5             | 10       |                   |
| 5            | Architectural Coating | Architectural Coating | 11/14/2023 | 12/11/2023 | 5             | 20       |                   |

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

**Acres of Grading (Grading Phase): 1.21**

**Acres of Paving: 0**

**Residential Indoor: 188,325; Residential Outdoor: 62,775; Non-Residential Indoor: 28,260; Non-Residential Outdoor: 9,420; Striped Parking Area: 4,992 (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        |
| Paving                | Cement and Mortar Mixers | 1      | 6.00        | 9           | 0.56        |
| Demolition            | Concrete/Industrial Saws | 1      | 8.00        | 81          | 0.73        |
| Building Construction | Cranes                   | 1      | 6.00        | 231         | 0.29        |
| Building Construction | Forklifts                | 1      | 6.00        | 89          | 0.20        |
| Building Construction | Generator Sets           | 1      | 8.00        | 84          | 0.74        |

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|                       |                           |   |      |     |      |
|-----------------------|---------------------------|---|------|-----|------|
| Grading               | Graders                   | 1 | 8.00 | 187 | 0.41 |
| Paving                | Pavers                    | 1 | 6.00 | 130 | 0.42 |
| Paving                | Paving Equipment          | 1 | 8.00 | 132 | 0.36 |
| Paving                | Rollers                   | 1 | 7.00 | 80  | 0.38 |
| Demolition            | Rubber Tired Dozers       | 1 | 8.00 | 247 | 0.40 |
| Grading               | Rubber Tired Dozers       | 1 | 8.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97  | 0.37 |
| Demolition            | Tractors/Loaders/Backhoes | 3 | 8.00 | 97  | 0.37 |
| Grading               | Tractors/Loaders/Backhoes | 2 | 7.00 | 97  | 0.37 |
| Paving                | Tractors/Loaders/Backhoes | 1 | 8.00 | 97  | 0.37 |
| Building Construction | Welders                   | 3 | 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            | 5                       | 13.00              | 0.00               | 45.00               | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 7                       | 108.00             | 27.00              | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 5                       | 13.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 22.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Water Exposed Area

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**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.4922        | 0.0000        | 0.4922        | 0.0745         | 0.0000        | 0.0745        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.4725        | 14.3184        | 13.4577        | 0.0241        |               | 0.6766        | 0.6766        |                | 0.6328        | 0.6328        |          | 2,324.3959        | 2,324.3959        | 0.5893        |     | 2,339.1278        |
| <b>Total</b>  | <b>1.4725</b> | <b>14.3184</b> | <b>13.4577</b> | <b>0.0241</b> | <b>0.4922</b> | <b>0.6766</b> | <b>1.1688</b> | <b>0.0745</b>  | <b>0.6328</b> | <b>0.7073</b> |          | <b>2,324.3959</b> | <b>2,324.3959</b> | <b>0.5893</b> |     | <b>2,339.1278</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |               |                 |
| Hauling      | 4.7500e-003   | 0.2770        | 0.0773        | 1.2900e-003        | 0.0393        | 1.9400e-003        | 0.0413        | 0.0108         | 1.8600e-003        | 0.0126        |          | 142.7476        | 142.7476        | 8.7600e-003   | 0.0227        | 149.7326        |
| 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       | 0.0411        | 0.0277        | 0.4545        | 1.2700e-003        | 0.1453        | 8.2000e-004        | 0.1461        | 0.0385         | 7.6000e-004        | 0.0393        |          | 130.0833        | 130.0833        | 3.1200e-003   | 2.9300e-003   | 131.0339        |
| <b>Total</b> | <b>0.0459</b> | <b>0.3047</b> | <b>0.5318</b> | <b>2.5600e-003</b> | <b>0.1847</b> | <b>2.7600e-003</b> | <b>0.1874</b> | <b>0.0493</b>  | <b>2.6200e-003</b> | <b>0.0519</b> |          | <b>272.8309</b> | <b>272.8309</b> | <b>0.0119</b> | <b>0.0256</b> | <b>280.7665</b> |

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**3.2 Demolition - 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 |               |                |                |               | 0.1920        | 0.0000        | 0.1920        | 0.0291         | 0.0000        | 0.0291        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.4725        | 14.3184        | 13.4577        | 0.0241        |               | 0.6766        | 0.6766        |                | 0.6328        | 0.6328        | 0.0000        | 2,324.3959        | 2,324.3959        | 0.5893        |     | 2,339.1278        |
| <b>Total</b>  | <b>1.4725</b> | <b>14.3184</b> | <b>13.4577</b> | <b>0.0241</b> | <b>0.1920</b> | <b>0.6766</b> | <b>0.8686</b> | <b>0.0291</b>  | <b>0.6328</b> | <b>0.6618</b> | <b>0.0000</b> | <b>2,324.3959</b> | <b>2,324.3959</b> | <b>0.5893</b> |     | <b>2,339.1278</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |               |                 |
| Hauling      | 4.7500e-003   | 0.2770        | 0.0773        | 1.2900e-003        | 0.0393        | 1.9400e-003        | 0.0413        | 0.0108         | 1.8600e-003        | 0.0126        |          | 142.7476        | 142.7476        | 8.7600e-003   | 0.0227        | 149.7326        |
| 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       | 0.0411        | 0.0277        | 0.4545        | 1.2700e-003        | 0.1453        | 8.2000e-004        | 0.1461        | 0.0385         | 7.6000e-004        | 0.0393        |          | 130.0833        | 130.0833        | 3.1200e-003   | 2.9300e-003   | 131.0339        |
| <b>Total</b> | <b>0.0459</b> | <b>0.3047</b> | <b>0.5318</b> | <b>2.5600e-003</b> | <b>0.1847</b> | <b>2.7600e-003</b> | <b>0.1874</b> | <b>0.0493</b>  | <b>2.6200e-003</b> | <b>0.0519</b> |          | <b>272.8309</b> | <b>272.8309</b> | <b>0.0119</b> | <b>0.0256</b> | <b>280.7665</b> |



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**3.3 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 |               |                |               |               | 6.3429        | 0.0000        | 6.3429        | 3.3449         | 0.0000        | 3.3449        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.3330        | 14.4676        | 8.7038        | 0.0206        |               | 0.6044        | 0.6044        |                | 0.5560        | 0.5560        |          | 1,995.6147        | 1,995.6147        | 0.6454        |     | 2,011.7503        |
| <b>Total</b>  | <b>1.3330</b> | <b>14.4676</b> | <b>8.7038</b> | <b>0.0206</b> | <b>6.3429</b> | <b>0.6044</b> | <b>6.9472</b> | <b>3.3449</b>  | <b>0.5560</b> | <b>3.9009</b> |          | <b>1,995.6147</b> | <b>1,995.6147</b> | <b>0.6454</b> |     | <b>2,011.7503</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |                    |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Worker       | 0.0317        | 0.0213        | 0.3496        | 9.8000e-004        | 0.1118        | 6.3000e-004        | 0.1124        | 0.0296         | 5.8000e-004        | 0.0302        |          | 100.0641        | 100.0641        | 2.4000e-003        | 2.2500e-003        | 100.7953        |
| <b>Total</b> | <b>0.0317</b> | <b>0.0213</b> | <b>0.3496</b> | <b>9.8000e-004</b> | <b>0.1118</b> | <b>6.3000e-004</b> | <b>0.1124</b> | <b>0.0296</b>  | <b>5.8000e-004</b> | <b>0.0302</b> |          | <b>100.0641</b> | <b>100.0641</b> | <b>2.4000e-003</b> | <b>2.2500e-003</b> | <b>100.7953</b> |

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**3.3 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 |               |                |               |               | 2.4737        | 0.0000        | 2.4737        | 1.3045         | 0.0000        | 1.3045        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.3330        | 14.4676        | 8.7038        | 0.0206        |               | 0.6044        | 0.6044        |                | 0.5560        | 0.5560        | 0.0000        | 1,995.6147        | 1,995.6147        | 0.6454        |     | 2,011.7503        |
| <b>Total</b>  | <b>1.3330</b> | <b>14.4676</b> | <b>8.7038</b> | <b>0.0206</b> | <b>2.4737</b> | <b>0.6044</b> | <b>3.0781</b> | <b>1.3045</b>  | <b>0.5560</b> | <b>1.8605</b> | <b>0.0000</b> | <b>1,995.6147</b> | <b>1,995.6147</b> | <b>0.6454</b> |     | <b>2,011.7503</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |                    |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Worker       | 0.0317        | 0.0213        | 0.3496        | 9.8000e-004        | 0.1118        | 6.3000e-004        | 0.1124        | 0.0296         | 5.8000e-004        | 0.0302        |          | 100.0641        | 100.0641        | 2.4000e-003        | 2.2500e-003        | 100.7953        |
| <b>Total</b> | <b>0.0317</b> | <b>0.0213</b> | <b>0.3496</b> | <b>9.8000e-004</b> | <b>0.1118</b> | <b>6.3000e-004</b> | <b>0.1124</b> | <b>0.0296</b>  | <b>5.8000e-004</b> | <b>0.0302</b> |          | <b>100.0641</b> | <b>100.0641</b> | <b>2.4000e-003</b> | <b>2.2500e-003</b> | <b>100.7953</b> |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.5233        | 11.7104        | 12.6111        | 0.0221        |               | 0.5145        | 0.5145        |                | 0.4968        | 0.4968        |          | 2,001.7877        | 2,001.7877        | 0.3399        |     | 2,010.2858        |
| <b>Total</b> | <b>1.5233</b> | <b>11.7104</b> | <b>12.6111</b> | <b>0.0221</b> |               | <b>0.5145</b> | <b>0.5145</b> |                | <b>0.4968</b> | <b>0.4968</b> |          | <b>2,001.7877</b> | <b>2,001.7877</b> | <b>0.3399</b> |     | <b>2,010.2858</b> |

**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       | 0.0290        | 0.9880        | 0.3792        | 4.9100e-003   | 0.1729        | 5.4600e-003   | 0.1783        | 0.0498         | 5.2200e-003   | 0.0550        |          | 530.7664          | 530.7664          | 0.0197        | 0.0770        | 554.1977          |
| Worker       | 0.3418        | 0.2303        | 3.7759        | 0.0106        | 1.2072        | 6.8300e-003   | 1.2140        | 0.3202         | 6.2800e-003   | 0.3264        |          | 1,080.6924        | 1,080.6924        | 0.0259        | 0.0243        | 1,088.5891        |
| <b>Total</b> | <b>0.3708</b> | <b>1.2183</b> | <b>4.1551</b> | <b>0.0155</b> | <b>1.3801</b> | <b>0.0123</b> | <b>1.3923</b> | <b>0.3699</b>  | <b>0.0115</b> | <b>0.3814</b> |          | <b>1,611.4588</b> | <b>1,611.4588</b> | <b>0.0455</b> | <b>0.1013</b> | <b>1,642.7868</b> |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**3.4 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     | 1.5233        | 11.7104        | 12.6111        | 0.0221        |               | 0.5145        | 0.5145        |                | 0.4968        | 0.4968        | 0.0000        | 2,001.7877        | 2,001.7877        | 0.3399        |     | 2,010.2858        |
| <b>Total</b> | <b>1.5233</b> | <b>11.7104</b> | <b>12.6111</b> | <b>0.0221</b> |               | <b>0.5145</b> | <b>0.5145</b> |                | <b>0.4968</b> | <b>0.4968</b> | <b>0.0000</b> | <b>2,001.7877</b> | <b>2,001.7877</b> | <b>0.3399</b> |     | <b>2,010.2858</b> |

**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       | 0.0290        | 0.9880        | 0.3792        | 4.9100e-003   | 0.1729        | 5.4600e-003   | 0.1783        | 0.0498         | 5.2200e-003   | 0.0550        |          | 530.7664          | 530.7664          | 0.0197        | 0.0770        | 554.1977          |
| Worker       | 0.3418        | 0.2303        | 3.7759        | 0.0106        | 1.2072        | 6.8300e-003   | 1.2140        | 0.3202         | 6.2800e-003   | 0.3264        |          | 1,080.6924        | 1,080.6924        | 0.0259        | 0.0243        | 1,088.5891        |
| <b>Total</b> | <b>0.3708</b> | <b>1.2183</b> | <b>4.1551</b> | <b>0.0155</b> | <b>1.3801</b> | <b>0.0123</b> | <b>1.3923</b> | <b>0.3699</b>  | <b>0.0115</b> | <b>0.3814</b> |          | <b>1,611.4588</b> | <b>1,611.4588</b> | <b>0.0455</b> | <b>0.1013</b> | <b>1,642.7868</b> |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.6446        | 6.2357        | 8.8024        | 0.0136        |               | 0.3084        | 0.3084        |                | 0.2846        | 0.2846        |          | 1,297.6880        | 1,297.6880        | 0.4114        |     | 1,307.9725        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.6446</b> | <b>6.2357</b> | <b>8.8024</b> | <b>0.0136</b> |               | <b>0.3084</b> | <b>0.3084</b> |                | <b>0.2846</b> | <b>0.2846</b> |          | <b>1,297.6880</b> | <b>1,297.6880</b> | <b>0.4114</b> |     | <b>1,307.9725</b> |

**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       | 0.0411        | 0.0277        | 0.4545        | 1.2700e-003        | 0.1453        | 8.2000e-004        | 0.1461        | 0.0385         | 7.6000e-004        | 0.0393        |          | 130.0833        | 130.0833        | 3.1200e-003        | 2.9300e-003        | 131.0339        |
| <b>Total</b> | <b>0.0411</b> | <b>0.0277</b> | <b>0.4545</b> | <b>1.2700e-003</b> | <b>0.1453</b> | <b>8.2000e-004</b> | <b>0.1461</b> | <b>0.0385</b>  | <b>7.6000e-004</b> | <b>0.0393</b> |          | <b>130.0833</b> | <b>130.0833</b> | <b>3.1200e-003</b> | <b>2.9300e-003</b> | <b>131.0339</b> |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**3.5 Paving - 2023**

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 0.6446        | 6.2357        | 8.8024        | 0.0136        |               | 0.3084        | 0.3084        |                | 0.2846        | 0.2846        | 0.0000        | 1,297.6880        | 1,297.6880        | 0.4114        |     | 1,307.9725        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.6446</b> | <b>6.2357</b> | <b>8.8024</b> | <b>0.0136</b> |               | <b>0.3084</b> | <b>0.3084</b> |                | <b>0.2846</b> | <b>0.2846</b> | <b>0.0000</b> | <b>1,297.6880</b> | <b>1,297.6880</b> | <b>0.4114</b> |     | <b>1,307.9725</b> |

**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       | 0.0411        | 0.0277        | 0.4545        | 1.2700e-003        | 0.1453        | 8.2000e-004        | 0.1461        | 0.0385         | 7.6000e-004        | 0.0393        |          | 130.0833        | 130.0833        | 3.1200e-003        | 2.9300e-003        | 131.0339        |
| <b>Total</b> | <b>0.0411</b> | <b>0.0277</b> | <b>0.4545</b> | <b>1.2700e-003</b> | <b>0.1453</b> | <b>8.2000e-004</b> | <b>0.1461</b> | <b>0.0385</b>  | <b>7.6000e-004</b> | <b>0.0393</b> |          | <b>130.0833</b> | <b>130.0833</b> | <b>3.1200e-003</b> | <b>2.9300e-003</b> | <b>131.0339</b> |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 38.9855        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1917         | 1.3030        | 1.8111        | 2.9700e-003        |               | 0.0708        | 0.0708        |                | 0.0708        | 0.0708        |          | 281.4481        | 281.4481        | 0.0168        |     | 281.8690        |
| <b>Total</b>    | <b>39.1771</b> | <b>1.3030</b> | <b>1.8111</b> | <b>2.9700e-003</b> |               | <b>0.0708</b> | <b>0.0708</b> |                | <b>0.0708</b> | <b>0.0708</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0168</b> |     | <b>281.8690</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |                    |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Worker       | 0.0696        | 0.0469        | 0.7692        | 2.1500e-003        | 0.2459        | 1.3900e-003        | 0.2473        | 0.0652         | 1.2800e-003        | 0.0665        |          | 220.1410        | 220.1410        | 5.2700e-003        | 4.9600e-003        | 221.7496        |
| <b>Total</b> | <b>0.0696</b> | <b>0.0469</b> | <b>0.7692</b> | <b>2.1500e-003</b> | <b>0.2459</b> | <b>1.3900e-003</b> | <b>0.2473</b> | <b>0.0652</b>  | <b>1.2800e-003</b> | <b>0.0665</b> |          | <b>220.1410</b> | <b>220.1410</b> | <b>5.2700e-003</b> | <b>4.9600e-003</b> | <b>221.7496</b> |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 38.9855        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1917         | 1.3030        | 1.8111        | 2.9700e-003        |               | 0.0708        | 0.0708        |                | 0.0708        | 0.0708        | 0.0000        | 281.4481        | 281.4481        | 0.0168        |     | 281.8690        |
| <b>Total</b>    | <b>39.1771</b> | <b>1.3030</b> | <b>1.8111</b> | <b>2.9700e-003</b> |               | <b>0.0708</b> | <b>0.0708</b> |                | <b>0.0708</b> | <b>0.0708</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0168</b> |     | <b>281.8690</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |                    |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Worker       | 0.0696        | 0.0469        | 0.7692        | 2.1500e-003        | 0.2459        | 1.3900e-003        | 0.2473        | 0.0652         | 1.2800e-003        | 0.0665        |          | 220.1410        | 220.1410        | 5.2700e-003        | 4.9600e-003        | 221.7496        |
| <b>Total</b> | <b>0.0696</b> | <b>0.0469</b> | <b>0.7692</b> | <b>2.1500e-003</b> | <b>0.2459</b> | <b>1.3900e-003</b> | <b>0.2473</b> | <b>0.0652</b>  | <b>1.2800e-003</b> | <b>0.0665</b> |          | <b>220.1410</b> | <b>220.1410</b> | <b>5.2700e-003</b> | <b>4.9600e-003</b> | <b>221.7496</b> |



Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 2.3507 | 2.3676 | 22.5052 | 0.0501 | 5.2528        | 0.0357       | 5.2885     | 1.3997         | 0.0331        | 1.4329      |          | 5,195.6324 | 5,195.6324 | 0.3254 | 0.2142 | 5,267.5987 |
| Unmitigated | 2.3507 | 2.3676 | 22.5052 | 0.0501 | 5.2528        | 0.0357       | 5.2885     | 1.3997         | 0.0331        | 1.4329      |          | 5,195.6324 | 5,195.6324 | 0.3254 | 0.2142 | 5,267.5987 |

4.2 Trip Summary Information

| Land Use                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|--------------------------------|-------------------------|----------|--------|-------------|------------|
|                                | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Apartments Mid Rise            | 422.22                  | 422.22   | 422.22 | 1,442,790   | 1,442,790  |
| Enclosed Parking with Elevator | 0.00                    | 0.00     | 0.00   |             |            |
| Office Park                    | 131.84                  | 131.84   | 131.84 | 445,441     | 445,441    |
| Strip Mall                     | 318.01                  | 318.01   | 318.01 | 605,037     | 605,037    |
| Total                          | 872.07                  | 872.07   | 872.07 | 2,493,268   | 2,493,268  |

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 |
| Apartments Mid 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       |
| Office Park                    | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 82             | 15       | 3       |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

| 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 |
| 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       |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise            | 0.543401 | 0.061496 | 0.184986 | 0.128935 | 0.023820 | 0.006437 | 0.011961 | 0.008652 | 0.000812 | 0.000508 | 0.024540 | 0.000745 | 0.003706 |
| Enclosed Parking with Elevator | 0.543401 | 0.061496 | 0.184986 | 0.128935 | 0.023820 | 0.006437 | 0.011961 | 0.008652 | 0.000812 | 0.000508 | 0.024540 | 0.000745 | 0.003706 |
| Office Park                    | 0.543401 | 0.061496 | 0.184986 | 0.128935 | 0.023820 | 0.006437 | 0.011961 | 0.008652 | 0.000812 | 0.000508 | 0.024540 | 0.000745 | 0.003706 |
| Strip Mall                     | 0.543401 | 0.061496 | 0.184986 | 0.128935 | 0.023820 | 0.006437 | 0.011961 | 0.008652 | 0.000812 | 0.000508 | 0.024540 | 0.000745 | 0.003706 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

| Category               | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
|                        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0399 | 0.3428 | 0.1608 | 2.1700e-003 |               | 0.0275       | 0.0275     |                | 0.0275        | 0.0275      |          | 434.8332  | 434.8332  | 8.3300e-003 | 7.9700e-003 | 437.4172 |
| NaturalGas Unmitigated | 0.0399 | 0.3428 | 0.1608 | 2.1700e-003 |               | 0.0275       | 0.0275     |                | 0.0275        | 0.0275      |          | 434.8332  | 434.8332  | 8.3300e-003 | 7.9700e-003 | 437.4172 |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**5.2 Energy by Land Use - 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   |                 |                 |                    |                    |                 |
| Apartments Mid Rise            | 3329.3         | 0.0359        | 0.3068        | 0.1306        | 1.9600e-003        |               | 0.0248        | 0.0248        |                | 0.0248        | 0.0248        |          | 391.6818        | 391.6818        | 7.5100e-003        | 7.1800e-003        | 394.0094        |
| 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          |
| Office Park                    | 339.814        | 3.6600e-003   | 0.0333        | 0.0280        | 2.0000e-004        |               | 2.5300e-003   | 2.5300e-003   |                | 2.5300e-003   | 2.5300e-003   |          | 39.9781         | 39.9781         | 7.7000e-004        | 7.3000e-004        | 40.2157         |
| Strip Mall                     | 26.9732        | 2.9000e-004   | 2.6400e-003   | 2.2200e-003   | 2.0000e-005        |               | 2.0000e-004   | 2.0000e-004   |                | 2.0000e-004   | 2.0000e-004   |          | 3.1733          | 3.1733          | 6.0000e-005        | 6.0000e-005        | 3.1922          |
| <b>Total</b>                   |                | <b>0.0399</b> | <b>0.3428</b> | <b>0.1608</b> | <b>2.1800e-003</b> |               | <b>0.0275</b> | <b>0.0275</b> |                | <b>0.0275</b> | <b>0.0275</b> |          | <b>434.8332</b> | <b>434.8332</b> | <b>8.3400e-003</b> | <b>7.9700e-003</b> | <b>437.4172</b> |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**5.2 Energy by Land Use - 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   |                 |                 |                    |                    |                 |
| Apartments Mid Rise            | 3.3293         | 0.0359        | 0.3068        | 0.1306        | 1.9600e-003        |               | 0.0248        | 0.0248        |                | 0.0248        | 0.0248        |          | 391.6818        | 391.6818        | 7.5100e-003        | 7.1800e-003        | 394.0094        |
| 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          |
| Office Park                    | 0.339814       | 3.6600e-003   | 0.0333        | 0.0280        | 2.0000e-004        |               | 2.5300e-003   | 2.5300e-003   |                | 2.5300e-003   | 2.5300e-003   |          | 39.9781         | 39.9781         | 7.7000e-004        | 7.3000e-004        | 40.2157         |
| Strip Mall                     | 0.0269732      | 2.9000e-004   | 2.6400e-003   | 2.2200e-003   | 2.0000e-005        |               | 2.0000e-004   | 2.0000e-004   |                | 2.0000e-004   | 2.0000e-004   |          | 3.1733          | 3.1733          | 6.0000e-005        | 6.0000e-005        | 3.1922          |
| <b>Total</b>                   |                | <b>0.0399</b> | <b>0.3428</b> | <b>0.1608</b> | <b>2.1800e-003</b> |               | <b>0.0275</b> | <b>0.0275</b> |                | <b>0.0275</b> | <b>0.0275</b> |          | <b>434.8332</b> | <b>434.8332</b> | <b>8.3400e-003</b> | <b>7.9700e-003</b> | <b>437.4172</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

|             | ROG     | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day  |        |         |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 2.6903  | 0.0886 | 7.6925  | 4.1000e-004 |               | 0.0426       | 0.0426     |                | 0.0426        | 0.0426      | 0.0000   | 13.8650    | 13.8650    | 0.0134 | 0.0000 | 14.1996    |
| Unmitigated | 27.0596 | 2.0182 | 54.9878 | 0.1211      |               | 7.1467       | 7.1467     |                | 7.1467        | 7.1467      | 871.1234 | 1,687.8650 | 2,558.9884 | 2.6112 | 0.0591 | 2,641.8890 |

**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 | 0.2136         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 2.2439         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 24.3694        | 1.9296        | 47.2953        | 0.1207        |               | 7.1041        | 7.1041        |                | 7.1041        | 7.1041        | 871.1234        | 1,674.0000        | 2,545.1234        | 2.5979        | 0.0591        | 2,627.6893        |
| Landscaping           | 0.2327         | 0.0886        | 7.6925         | 4.1000e-004   |               | 0.0426        | 0.0426        |                | 0.0426        | 0.0426        |                 | 13.8650           | 13.8650           | 0.0134        |               | 14.1996           |
| <b>Total</b>          | <b>27.0596</b> | <b>2.0182</b> | <b>54.9878</b> | <b>0.1211</b> |               | <b>7.1467</b> | <b>7.1467</b> |                | <b>7.1467</b> | <b>7.1467</b> | <b>871.1234</b> | <b>1,687.8650</b> | <b>2,558.9884</b> | <b>2.6113</b> | <b>0.0591</b> | <b>2,641.8890</b> |

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**6.2 Area by SubCategory**

Mitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                |                |               |               |                |
| Architectural Coating | 0.2136        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                | 0.0000         |               |               | 0.0000         |
| Consumer Products     | 2.2439        |               |               |                    |               | 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           | 0.2327        | 0.0886        | 7.6925        | 4.1000e-004        |               | 0.0426        | 0.0426        |                | 0.0426        | 0.0426        |               | 13.8650        | 13.8650        | 0.0134        |               | 14.1996        |
| <b>Total</b>          | <b>2.6903</b> | <b>0.0886</b> | <b>7.6925</b> | <b>4.1000e-004</b> |               | <b>0.0426</b> | <b>0.0426</b> |                | <b>0.0426</b> | <b>0.0426</b> | <b>0.0000</b> | <b>13.8650</b> | <b>13.8650</b> | <b>0.0134</b> | <b>0.0000</b> | <b>14.1996</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Strathmore and Garvey Mixed Use - South Coast Air Basin, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

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