

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**Menifee Chick-fil-A  
Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                            | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|--------------------------------------|-------|----------|-------------|--------------------|------------|
| Other Non-Asphalt Surfaces           | 0.69  | Acre     | 0.69        | 29,969.28          | 0          |
| Parking Lot                          | 86.00 | Space    | 0.77        | 34,400.00          | 0          |
| City Park                            | 0.64  | Acre     | 0.64        | 27,747.72          | 0          |
| Fast Food Restaurant with Drive Thru | 4.93  | 1000sqft | 0.11        | 4,929.00           | 0          |

**1.2 Other Project Characteristics**

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.4   | <b>Precipitation Freq (Days)</b> | 28    |
| <b>Climate Zone</b>            | 10                         |                                |       | <b>Operational Year</b>          | 2023  |
| <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 - Per PD

Construction Phase - per AQ Questionnaire

Off-road Equipment -

Off-road Equipment - per AQ questionnaire

As conservative analysis, we assume the construction take place 8 hours per day

Off-road Equipment -

Off-road Equipment - per AQ questionnaire

as an conservative analysis, we assume the construction take place 8 hours per day.

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Off-road Equipment - per AQ questionnaire

As conservative analysis, we assume the construction take place 8 hours per day

Trips and VMT -

Grading -

Vehicle Trips - per traffic study -- TOTAL TRIP GENERATION

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Waste Mitigation - AB341

| Table Name             | Column Name                  | Default Value | New Value |
|------------------------|------------------------------|---------------|-----------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0             | 15        |
| tblConstructionPhase   | NumDays                      | 220.00        | 66.00     |
| tblConstructionPhase   | NumDays                      | 20.00         | 22.00     |
| tblConstructionPhase   | NumDays                      | 6.00          | 20.00     |
| tblGrading             | MaterialExported             | 0.00          | 300.00    |
| tblLandUse             | LandUseSquareFeet            | 30,056.40     | 29,969.28 |
| tblLandUse             | LandUseSquareFeet            | 27,878.40     | 27,747.72 |
| tblLandUse             | LandUseSquareFeet            | 4,930.00      | 4,929.00  |
| tblOffRoadEquipment    | OffRoadEquipmentUnitAmount   | 2.00          | 1.00      |
| tblOffRoadEquipment    | UsageHours                   | 6.00          | 8.00      |
| tblOffRoadEquipment    | UsageHours                   | 7.00          | 8.00      |
| tblVehicleTrips        | ST_TR                        | 1.96          | 0.00      |
| tblVehicleTrips        | ST_TR                        | 616.12        | 459.03    |
| tblVehicleTrips        | SU_TR                        | 2.19          | 0.00      |
| tblVehicleTrips        | SU_TR                        | 472.58        | 459.03    |
| tblVehicleTrips        | WD_TR                        | 0.78          | 0.00      |
| tblVehicleTrips        | WD_TR                        | 470.95        | 459.03    |

**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         | 0.1401        | 9.0000e-005   | 9.4200e-003    | 0.0000        |               | 3.0000e-005   | 3.0000e-005   |                | 3.0000e-005   | 3.0000e-005   |          | 0.0202            | 0.0202            | 5.0000e-005   |               | 0.0215            |
| Energy       | 0.0397        | 0.3610        | 0.3032         | 2.1700e-003   |               | 0.0274        | 0.0274        |                | 0.0274        | 0.0274        |          | 433.1801          | 433.1801          | 8.3000e-003   | 7.9400e-003   | 435.7542          |
| Mobile       | 4.2260        | 4.6616        | 28.4751        | 0.0501        | 5.0325        | 0.0455        | 5.0780        | 1.3427         | 0.0426        | 1.3853        |          | 5,160.2213        | 5,160.2213        | 0.4550        | 0.3486        | 5,275.4693        |
| <b>Total</b> | <b>4.4058</b> | <b>5.0227</b> | <b>28.7877</b> | <b>0.0523</b> | <b>5.0325</b> | <b>0.0730</b> | <b>5.1055</b> | <b>1.3427</b>  | <b>0.0700</b> | <b>1.4127</b> |          | <b>5,593.4216</b> | <b>5,593.4216</b> | <b>0.4634</b> | <b>0.3565</b> | <b>5,711.2451</b> |

**Mitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Area         | 0.1401        | 9.0000e-005   | 9.4200e-003    | 0.0000        |               | 3.0000e-005   | 3.0000e-005   |                | 3.0000e-005   | 3.0000e-005   |          | 0.0202            | 0.0202            | 5.0000e-005   |               | 0.0215            |
| Energy       | 0.0397        | 0.3610        | 0.3032         | 2.1700e-003   |               | 0.0274        | 0.0274        |                | 0.0274        | 0.0274        |          | 433.1801          | 433.1801          | 8.3000e-003   | 7.9400e-003   | 435.7542          |
| Mobile       | 4.2260        | 4.6616        | 28.4751        | 0.0501        | 5.0325        | 0.0455        | 5.0780        | 1.3427         | 0.0426        | 1.3853        |          | 5,160.2213        | 5,160.2213        | 0.4550        | 0.3486        | 5,275.4693        |
| <b>Total</b> | <b>4.4058</b> | <b>5.0227</b> | <b>28.7877</b> | <b>0.0523</b> | <b>5.0325</b> | <b>0.0730</b> | <b>5.1055</b> | <b>1.3427</b>  | <b>0.0700</b> | <b>1.4127</b> |          | <b>5,593.4216</b> | <b>5,593.4216</b> | <b>0.4634</b> | <b>0.3565</b> | <b>5,711.2451</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 3/1/2023   | 3/30/2023 | 5             | 22       |                   |
| 2            | Grading               | Grading               | 4/3/2023   | 4/30/2023 | 5             | 20       |                   |
| 3            | Building Construction | Building Construction | 5/1/2023   | 7/31/2023 | 5             | 66       |                   |
| 4            | Paving                | Paving                | 5/1/2023   | 5/12/2023 | 5             | 10       |                   |
| 5            | Architectural Coating | Architectural Coating | 8/1/2023   | 8/14/2023 | 5             | 10       |                   |

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

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

**Acres of Paving: 1.46**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,394; Non-Residential Outdoor: 2,465; Striped Parking Area: 3,862 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Demolition | Tractors/Loaders/Backhoes | 3      | 8.00        | 97          | 0.37        |
| Grading    | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading    | Off-Highway Trucks        | 2      | 8.00        | 402         | 0.38        |
| Grading    | Pavers                    | 1      | 8.00        | 130         | 0.42        |

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|                       |                              |   |      |     |      |
|-----------------------|------------------------------|---|------|-----|------|
| Grading               | Paving Equipment             | 1 | 8.00 | 132 | 0.36 |
| Grading               | Rubber Tired Dozers          | 1 | 8.00 | 247 | 0.40 |
| Grading               | Surfacing Equipment          | 1 | 8.00 | 263 | 0.30 |
| Grading               | Tractors/Loaders/Backhoes    | 1 | 8.00 | 97  | 0.37 |
| Building Construction | Cranes                       | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts                    | 2 | 7.00 | 89  | 0.20 |
| Building Construction | Generator Sets               | 1 | 8.00 | 84  | 0.74 |
| Building Construction | Off-Highway Trucks           | 3 | 8.00 | 402 | 0.38 |
| Building Construction | Rough Terrain Forklifts      | 1 | 8.00 | 100 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes    | 1 | 8.00 | 97  | 0.37 |
| Building Construction | Welders                      | 3 | 8.00 | 46  | 0.45 |
| Paving                | Cement and Mortar Mixers     | 1 | 8.00 | 9   | 0.56 |
| Paving                | Graders                      | 1 | 8.00 | 187 | 0.41 |
| Paving                | Off-Highway Trucks           | 1 | 8.00 | 402 | 0.38 |
| Paving                | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Paving                | Pavers                       | 1 | 8.00 | 130 | 0.42 |
| Paving                | Paving Equipment             | 1 | 8.00 | 132 | 0.36 |
| Paving                | Rollers                      | 2 | 8.00 | 80  | 0.38 |
| Paving                | Tractors/Loaders/Backhoes    | 1 | 8.00 | 97  | 0.37 |
| Architectural Coating | Air Compressors              | 1 | 6.00 | 78  | 0.48 |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 5                       | 13.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 38.00               | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 12                      | 41.00              | 16.00              | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 9                       | 23.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

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|                       |   |      |      |      |       |      |       |        |         |      |
|-----------------------|---|------|------|------|-------|------|-------|--------|---------|------|
| Architectural Coating | 1 | 8.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
|-----------------------|---|------|------|------|-------|------|-------|--------|---------|------|

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

**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   |                   |                   |               |     |                   |
| 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>0.6766</b> | <b>0.6766</b> |                | <b>0.6328</b> | <b>0.6328</b> |          | <b>2,324.3959</b> | <b>2,324.3959</b> | <b>0.5893</b> |     | <b>2,339.1278</b> |

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**3.2 Demolition - 2023**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |                    |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Worker       | 0.0445        | 0.0305        | 0.3873        | 1.1600e-003        | 0.1453        | 6.8000e-004        | 0.1460        | 0.0385         | 6.3000e-004        | 0.0392        |          | 118.5223        | 118.5223        | 2.9800e-003        | 3.1200e-003        | 119.5269        |
| <b>Total</b> | <b>0.0445</b> | <b>0.0305</b> | <b>0.3873</b> | <b>1.1600e-003</b> | <b>0.1453</b> | <b>6.8000e-004</b> | <b>0.1460</b> | <b>0.0385</b>  | <b>6.3000e-004</b> | <b>0.0392</b> |          | <b>118.5223</b> | <b>118.5223</b> | <b>2.9800e-003</b> | <b>3.1200e-003</b> | <b>119.5269</b> |

**Mitigated Construction On-Site**

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



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**3.2 Demolition - 2023**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |                    |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Worker       | 0.0445        | 0.0305        | 0.3873        | 1.1600e-003        | 0.1453        | 6.8000e-004        | 0.1460        | 0.0385         | 6.3000e-004        | 0.0392        |          | 118.5223        | 118.5223        | 2.9800e-003        | 3.1200e-003        | 119.5269        |
| <b>Total</b> | <b>0.0445</b> | <b>0.0305</b> | <b>0.3873</b> | <b>1.1600e-003</b> | <b>0.1453</b> | <b>6.8000e-004</b> | <b>0.1460</b> | <b>0.0385</b>  | <b>6.3000e-004</b> | <b>0.0392</b> |          | <b>118.5223</b> | <b>118.5223</b> | <b>2.9800e-003</b> | <b>3.1200e-003</b> | <b>119.5269</b> |

**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 |               |                |                |               | 7.0845        | 0.0000        | 7.0845        | 3.4250         | 0.0000        | 3.4250        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7728        | 25.9907        | 20.6659        | 0.0603        |               | 1.0494        | 1.0494        |                | 0.9655        | 0.9655        |          | 5,833.4472        | 5,833.4472        | 1.8867        |     | 5,880.6136        |
| <b>Total</b>  | <b>2.7728</b> | <b>25.9907</b> | <b>20.6659</b> | <b>0.0603</b> | <b>7.0845</b> | <b>1.0494</b> | <b>8.1339</b> | <b>3.4250</b>  | <b>0.9655</b> | <b>4.3905</b> |          | <b>5,833.4472</b> | <b>5,833.4472</b> | <b>1.8867</b> |     | <b>5,880.6136</b> |

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**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |               |                 |
| Hauling      | 3.8200e-003   | 0.2011        | 0.0533        | 1.0500e-003        | 0.0333        | 2.2900e-003        | 0.0356        | 9.1200e-003    | 2.1900e-003        | 0.0113        |          | 111.6655        | 111.6655        | 1.5700e-003        | 0.0176        | 116.9482        |
| 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       | 0.0685        | 0.0469        | 0.5958        | 1.7800e-003        | 0.2236        | 1.0500e-003        | 0.2246        | 0.0593         | 9.7000e-004        | 0.0603        |          | 182.3421        | 182.3421        | 4.5800e-003        | 4.8000e-003   | 183.8876        |
| <b>Total</b> | <b>0.0723</b> | <b>0.2479</b> | <b>0.6491</b> | <b>2.8300e-003</b> | <b>0.2568</b> | <b>3.3400e-003</b> | <b>0.2602</b> | <b>0.0684</b>  | <b>3.1600e-003</b> | <b>0.0716</b> |          | <b>294.0076</b> | <b>294.0076</b> | <b>6.1500e-003</b> | <b>0.0224</b> | <b>300.8357</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.6248        | 0.0000        | 2.6248        | 1.2690         | 0.0000        | 1.2690        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7728        | 25.9907        | 20.6659        | 0.0603        |               | 1.0494        | 1.0494        |                | 0.9655        | 0.9655        | 0.0000        | 5,833.4472        | 5,833.4472        | 1.8867        |     | 5,880.6136        |
| <b>Total</b>  | <b>2.7728</b> | <b>25.9907</b> | <b>20.6659</b> | <b>0.0603</b> | <b>2.6248</b> | <b>1.0494</b> | <b>3.6742</b> | <b>1.2690</b>  | <b>0.9655</b> | <b>2.2344</b> | <b>0.0000</b> | <b>5,833.4472</b> | <b>5,833.4472</b> | <b>1.8867</b> |     | <b>5,880.6136</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |               |                 |
| Hauling      | 3.8200e-003   | 0.2011        | 0.0533        | 1.0500e-003        | 0.0333        | 2.2900e-003        | 0.0356        | 9.1200e-003    | 2.1900e-003        | 0.0113        |          | 111.6655        | 111.6655        | 1.5700e-003        | 0.0176        | 116.9482        |
| 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       | 0.0685        | 0.0469        | 0.5958        | 1.7800e-003        | 0.2236        | 1.0500e-003        | 0.2246        | 0.0593         | 9.7000e-004        | 0.0603        |          | 182.3421        | 182.3421        | 4.5800e-003        | 4.8000e-003   | 183.8876        |
| <b>Total</b> | <b>0.0723</b> | <b>0.2479</b> | <b>0.6491</b> | <b>2.8300e-003</b> | <b>0.2568</b> | <b>3.3400e-003</b> | <b>0.2602</b> | <b>0.0684</b>  | <b>3.1600e-003</b> | <b>0.0716</b> |          | <b>294.0076</b> | <b>294.0076</b> | <b>6.1500e-003</b> | <b>0.0224</b> | <b>300.8357</b> |

**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     | 3.3689        | 26.1109        | 26.9251        | 0.0689        |               | 1.0646        | 1.0646        |                | 1.0029        | 1.0029        |          | 6,538.3864        | 6,538.3864        | 1.8072        |     | 6,583.5652        |
| <b>Total</b> | <b>3.3689</b> | <b>26.1109</b> | <b>26.9251</b> | <b>0.0689</b> |               | <b>1.0646</b> | <b>1.0646</b> |                | <b>1.0029</b> | <b>1.0029</b> |          | <b>6,538.3864</b> | <b>6,538.3864</b> | <b>1.8072</b> |     | <b>6,583.5652</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**3.4 Building Construction - 2023**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0167        | 0.5544        | 0.2225        | 2.8000e-003        | 0.1025        | 4.5700e-003        | 0.1071        | 0.0295         | 4.3700e-003        | 0.0339        |          | 297.1693        | 297.1693        | 2.9600e-003   | 0.0440        | 310.3404        |
| Worker       | 0.1404        | 0.0960        | 1.2214        | 3.6500e-003        | 0.4583        | 2.1500e-003        | 0.4604        | 0.1215         | 1.9800e-003        | 0.1235        |          | 373.8012        | 373.8012        | 9.3900e-003   | 9.8400e-003   | 376.9695        |
| <b>Total</b> | <b>0.1571</b> | <b>0.6504</b> | <b>1.4439</b> | <b>6.4500e-003</b> | <b>0.5608</b> | <b>6.7200e-003</b> | <b>0.5675</b> | <b>0.1511</b>  | <b>6.3500e-003</b> | <b>0.1574</b> |          | <b>670.9705</b> | <b>670.9705</b> | <b>0.0124</b> | <b>0.0538</b> | <b>687.3099</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 3.3689        | 26.1109        | 26.9251        | 0.0689        |               | 1.0646        | 1.0646        |                | 1.0029        | 1.0029        | 0.0000        | 6,538.3864        | 6,538.3864        | 1.8072        |     | 6,583.5652        |
| <b>Total</b> | <b>3.3689</b> | <b>26.1109</b> | <b>26.9251</b> | <b>0.0689</b> |               | <b>1.0646</b> | <b>1.0646</b> |                | <b>1.0029</b> | <b>1.0029</b> | <b>0.0000</b> | <b>6,538.3864</b> | <b>6,538.3864</b> | <b>1.8072</b> |     | <b>6,583.5652</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**3.4 Building Construction - 2023**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0167        | 0.5544        | 0.2225        | 2.8000e-003        | 0.1025        | 4.5700e-003        | 0.1071        | 0.0295         | 4.3700e-003        | 0.0339        |          | 297.1693        | 297.1693        | 2.9600e-003   | 0.0440        | 310.3404        |
| Worker       | 0.1404        | 0.0960        | 1.2214        | 3.6500e-003        | 0.4583        | 2.1500e-003        | 0.4604        | 0.1215         | 1.9800e-003        | 0.1235        |          | 373.8012        | 373.8012        | 9.3900e-003   | 9.8400e-003   | 376.9695        |
| <b>Total</b> | <b>0.1571</b> | <b>0.6504</b> | <b>1.4439</b> | <b>6.4500e-003</b> | <b>0.5608</b> | <b>6.7200e-003</b> | <b>0.5675</b> | <b>0.1511</b>  | <b>6.3500e-003</b> | <b>0.1574</b> |          | <b>670.9705</b> | <b>670.9705</b> | <b>0.0124</b> | <b>0.0538</b> | <b>687.3099</b> |

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.1160        | 20.2685        | 20.6677        | 0.0439        |               | 0.8925        | 0.8925        |                | 0.8223        | 0.8223        |          | 4,228.9979        | 4,228.9979        | 1.3567        |     | 4,262.9141        |
| Paving       | 0.2017        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.3177</b> | <b>20.2685</b> | <b>20.6677</b> | <b>0.0439</b> |               | <b>0.8925</b> | <b>0.8925</b> |                | <b>0.8223</b> | <b>0.8223</b> |          | <b>4,228.9979</b> | <b>4,228.9979</b> | <b>1.3567</b> |     | <b>4,262.9141</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**3.5 Paving - 2023**

**Unmitigated Construction 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       | 0.0788        | 0.0539        | 0.6852        | 2.0500e-003        | 0.2571        | 1.2100e-003        | 0.2583        | 0.0682         | 1.1100e-003        | 0.0693        |          | 209.6934        | 209.6934        | 5.2700e-003        | 5.5200e-003        | 211.4707        |
| <b>Total</b> | <b>0.0788</b> | <b>0.0539</b> | <b>0.6852</b> | <b>2.0500e-003</b> | <b>0.2571</b> | <b>1.2100e-003</b> | <b>0.2583</b> | <b>0.0682</b>  | <b>1.1100e-003</b> | <b>0.0693</b> |          | <b>209.6934</b> | <b>209.6934</b> | <b>5.2700e-003</b> | <b>5.5200e-003</b> | <b>211.4707</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 2.1160        | 20.2685        | 20.6677        | 0.0439        |               | 0.8925        | 0.8925        |                | 0.8223        | 0.8223        | 0.0000        | 4,228.9979        | 4,228.9979        | 1.3567        |     | 4,262.9141        |
| Paving       | 0.2017        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.3177</b> | <b>20.2685</b> | <b>20.6677</b> | <b>0.0439</b> |               | <b>0.8925</b> | <b>0.8925</b> |                | <b>0.8223</b> | <b>0.8223</b> | <b>0.0000</b> | <b>4,228.9979</b> | <b>4,228.9979</b> | <b>1.3567</b> |     | <b>4,262.9141</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**3.5 Paving - 2023**

**Mitigated Construction 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       | 0.0788        | 0.0539        | 0.6852        | 2.0500e-003        | 0.2571        | 1.2100e-003        | 0.2583        | 0.0682         | 1.1100e-003        | 0.0693        |          | 209.6934        | 209.6934        | 5.2700e-003        | 5.5200e-003        | 211.4707        |
| <b>Total</b> | <b>0.0788</b> | <b>0.0539</b> | <b>0.6852</b> | <b>2.0500e-003</b> | <b>0.2571</b> | <b>1.2100e-003</b> | <b>0.2583</b> | <b>0.0682</b>  | <b>1.1100e-003</b> | <b>0.0693</b> |          | <b>209.6934</b> | <b>209.6934</b> | <b>5.2700e-003</b> | <b>5.5200e-003</b> | <b>211.4707</b> |

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 6.3597        |               |               |                    |               | 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>6.5513</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> |

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

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

**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 | 6.3597        |               |               |                    |               | 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>6.5513</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> |



Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

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

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 4.2260 | 4.6616 | 28.4751 | 0.0501 | 5.0325        | 0.0455       | 5.0780     | 1.3427         | 0.0426        | 1.3853      |          | 5,160.2213 | 5,160.2213 | 0.4550 | 0.3486 | 5,275.4693 |
| Unmitigated | 4.2260 | 4.6616 | 28.4751 | 0.0501 | 5.0325        | 0.0455       | 5.0780     | 1.3427         | 0.0426        | 1.3853      |          | 5,160.2213 | 5,160.2213 | 0.4550 | 0.3486 | 5,275.4693 |

**4.2 Trip Summary Information**

| Land Use                             | Average Daily Trip Rate |                 |                 | Unmitigated      | Mitigated        |
|--------------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
|                                      | Weekday                 | Saturday        | Sunday          | Annual VMT       | Annual VMT       |
| City Park                            | 0.00                    | 0.00            | 0.00            |                  |                  |
| Fast Food Restaurant with Drive Thru | 2,263.00                | 2,263.00        | 2263.00         | 2,381,551        | 2,381,551        |
| Other Non-Asphalt Surfaces           | 0.00                    | 0.00            | 0.00            |                  |                  |
| Parking Lot                          | 0.00                    | 0.00            | 0.00            |                  |                  |
| <b>Total</b>                         | <b>2,263.00</b>         | <b>2,263.00</b> | <b>2,263.00</b> | <b>2,381,551</b> | <b>2,381,551</b> |

**4.3 Trip Type Information**

| Land Use                        | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                 | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park                       | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |
| Fast Food Restaurant with Drive | 16.60      | 8.40       | 6.90        | 2.20       | 78.80      | 19.00       | 29             | 21       | 50      |
| Other Non-Asphalt Surfaces      | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                     | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

**4.4 Fleet Mix**

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

| Land Use                             | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park                            | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Fast Food Restaurant with Drive Thru | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Other Non-Asphalt Surfaces           | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Parking Lot                          | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0397 | 0.3610 | 0.3032 | 2.1700e-003 |               | 0.0274       | 0.0274     |                | 0.0274        | 0.0274      |          | 433.1801  | 433.1801  | 8.3000e-003 | 7.9400e-003 | 435.7542 |
| NaturalGas Unmitigated | 0.0397 | 0.3610 | 0.3032 | 2.1700e-003 |               | 0.0274       | 0.0274     |                | 0.0274        | 0.0274      |          | 433.1801  | 433.1801  | 8.3000e-003 | 7.9400e-003 | 435.7542 |

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

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

**Unmitigated**

|                                      | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                             | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| City Park                            | 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          |
| Fast Food Restaurant with Drive Thru | 3682.03         | 0.0397        | 0.3610        | 0.3032        | 2.1700e-003        |               | 0.0274        | 0.0274        |                | 0.0274        | 0.0274        |          | 433.1801        | 433.1801        | 8.3000e-003        | 7.9400e-003        | 435.7542        |
| Other Non-Asphalt Surfaces           | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                          | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>                         |                 | <b>0.0397</b> | <b>0.3610</b> | <b>0.3032</b> | <b>2.1700e-003</b> |               | <b>0.0274</b> | <b>0.0274</b> |                | <b>0.0274</b> | <b>0.0274</b> |          | <b>433.1801</b> | <b>433.1801</b> | <b>8.3000e-003</b> | <b>7.9400e-003</b> | <b>435.7542</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

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

Mitigated

|                                      | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                             | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| City Park                            | 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          |
| Fast Food Restaurant with Drive Thru | 3.68203         | 0.0397        | 0.3610        | 0.3032        | 2.1700e-003        |               | 0.0274        | 0.0274        |                | 0.0274        | 0.0274        |          | 433.1801        | 433.1801        | 8.3000e-003        | 7.9400e-003        | 435.7542        |
| Other Non-Asphalt Surfaces           | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                          | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>                         |                 | <b>0.0397</b> | <b>0.3610</b> | <b>0.3032</b> | <b>2.1700e-003</b> |               | <b>0.0274</b> | <b>0.0274</b> |                | <b>0.0274</b> | <b>0.0274</b> |          | <b>433.1801</b> | <b>433.1801</b> | <b>8.3000e-003</b> | <b>7.9400e-003</b> | <b>435.7542</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

|             | ROG    | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e   |
|-------------|--------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category    | lb/day |             |             |        |               |              |             |                |               |             | lb/day   |           |           |             |     |        |
| Mitigated   | 0.1401 | 9.0000e-005 | 9.4200e-003 | 0.0000 |               | 3.0000e-005  | 3.0000e-005 |                | 3.0000e-005   | 3.0000e-005 |          | 0.0202    | 0.0202    | 5.0000e-005 |     | 0.0215 |
| Unmitigated | 0.1401 | 9.0000e-005 | 9.4200e-003 | 0.0000 |               | 3.0000e-005  | 3.0000e-005 |                | 3.0000e-005   | 3.0000e-005 |          | 0.0202    | 0.0202    | 5.0000e-005 |     | 0.0215 |

**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 | 0.0174        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.1218        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 8.7000e-004   | 9.0000e-005        | 9.4200e-003        | 0.0000        |               | 3.0000e-005        | 3.0000e-005        |                | 3.0000e-005        | 3.0000e-005        |          | 0.0202        | 0.0202        | 5.0000e-005        |     | 0.0215        |
| <b>Total</b>          | <b>0.1401</b> | <b>9.0000e-005</b> | <b>9.4200e-003</b> | <b>0.0000</b> |               | <b>3.0000e-005</b> | <b>3.0000e-005</b> |                | <b>3.0000e-005</b> | <b>3.0000e-005</b> |          | <b>0.0202</b> | <b>0.0202</b> | <b>5.0000e-005</b> |     | <b>0.0215</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |                    |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0174        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.1218        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 8.7000e-004   | 9.0000e-005        | 9.4200e-003        | 0.0000        |               | 3.0000e-005        | 3.0000e-005        |                | 3.0000e-005        | 3.0000e-005        |          | 0.0202        | 0.0202        | 5.0000e-005        |     | 0.0215        |
| <b>Total</b>          | <b>0.1401</b> | <b>9.0000e-005</b> | <b>9.4200e-003</b> | <b>0.0000</b> |               | <b>3.0000e-005</b> | <b>3.0000e-005</b> |                | <b>3.0000e-005</b> | <b>3.0000e-005</b> |          | <b>0.0202</b> | <b>0.0202</b> | <b>5.0000e-005</b> |     | <b>0.0215</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Menifee Chick-fil-A - Riverside-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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**

---

**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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Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**Menifee Chick-fil-A  
Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                            | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|--------------------------------------|-------|----------|-------------|--------------------|------------|
| Other Non-Asphalt Surfaces           | 0.69  | Acre     | 0.69        | 29,969.28          | 0          |
| Parking Lot                          | 86.00 | Space    | 0.77        | 34,400.00          | 0          |
| City Park                            | 0.64  | Acre     | 0.64        | 27,747.72          | 0          |
| Fast Food Restaurant with Drive Thru | 4.93  | 1000sqft | 0.11        | 4,929.00           | 0          |

**1.2 Other Project Characteristics**

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.4   | <b>Precipitation Freq (Days)</b> | 28    |
| <b>Climate Zone</b>            | 10                         |                                |       | <b>Operational Year</b>          | 2023  |
| <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 - Per PD

Construction Phase - per AQ Questionnaire

Off-road Equipment -

Off-road Equipment - per AQ questionnaire

As conservative analysis, we assume the construction take place 8 hours per day

Off-road Equipment -

Off-road Equipment - per AQ questionnaire

as an conservative analysis, we assume the construction take place 8 hours per day.

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

Off-road Equipment - per AQ questionnaire

As conservative analysis, we assume the construction take place 8 hours per day

Trips and VMT -

Grading -

Vehicle Trips - per traffic study -- TOTAL TRIP GENERATION

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Waste Mitigation - AB341

| Table Name             | Column Name                  | Default Value | New Value |
|------------------------|------------------------------|---------------|-----------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0             | 15        |
| tblConstructionPhase   | NumDays                      | 220.00        | 66.00     |
| tblConstructionPhase   | NumDays                      | 20.00         | 22.00     |
| tblConstructionPhase   | NumDays                      | 6.00          | 20.00     |
| tblGrading             | MaterialExported             | 0.00          | 300.00    |
| tblLandUse             | LandUseSquareFeet            | 30,056.40     | 29,969.28 |
| tblLandUse             | LandUseSquareFeet            | 27,878.40     | 27,747.72 |
| tblLandUse             | LandUseSquareFeet            | 4,930.00      | 4,929.00  |
| tblOffRoadEquipment    | OffRoadEquipmentUnitAmount   | 2.00          | 1.00      |
| tblOffRoadEquipment    | UsageHours                   | 6.00          | 8.00      |
| tblOffRoadEquipment    | UsageHours                   | 7.00          | 8.00      |
| tblVehicleTrips        | ST_TR                        | 1.96          | 0.00      |
| tblVehicleTrips        | ST_TR                        | 616.12        | 459.03    |
| tblVehicleTrips        | SU_TR                        | 2.19          | 0.00      |
| tblVehicleTrips        | SU_TR                        | 472.58        | 459.03    |
| tblVehicleTrips        | WD_TR                        | 0.78          | 0.00      |
| tblVehicleTrips        | WD_TR                        | 470.95        | 459.03    |

**2.0 Emissions Summary**



Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Area         | 0.1401        | 9.0000e-005   | 9.4200e-003    | 0.0000        |               | 3.0000e-005   | 3.0000e-005   |                | 3.0000e-005   | 3.0000e-005   |          | 0.0202            | 0.0202            | 5.0000e-005   |               | 0.0215            |
| Energy       | 0.0397        | 0.3610        | 0.3032         | 2.1700e-003   |               | 0.0274        | 0.0274        |                | 0.0274        | 0.0274        |          | 433.1801          | 433.1801          | 8.3000e-003   | 7.9400e-003   | 435.7542          |
| Mobile       | 5.2640        | 4.4018        | 30.0550        | 0.0538        | 5.0325        | 0.0454        | 5.0780        | 1.3427         | 0.0425        | 1.3852        |          | 5,531.0415        | 5,531.0415        | 0.4230        | 0.3405        | 5,643.0963        |
| <b>Total</b> | <b>5.4438</b> | <b>4.7628</b> | <b>30.3677</b> | <b>0.0559</b> | <b>5.0325</b> | <b>0.0729</b> | <b>5.1054</b> | <b>1.3427</b>  | <b>0.0700</b> | <b>1.4127</b> |          | <b>5,964.2417</b> | <b>5,964.2417</b> | <b>0.4313</b> | <b>0.3485</b> | <b>6,078.8720</b> |

**Mitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Area         | 0.1401        | 9.0000e-005   | 9.4200e-003    | 0.0000        |               | 3.0000e-005   | 3.0000e-005   |                | 3.0000e-005   | 3.0000e-005   |          | 0.0202            | 0.0202            | 5.0000e-005   |               | 0.0215            |
| Energy       | 0.0397        | 0.3610        | 0.3032         | 2.1700e-003   |               | 0.0274        | 0.0274        |                | 0.0274        | 0.0274        |          | 433.1801          | 433.1801          | 8.3000e-003   | 7.9400e-003   | 435.7542          |
| Mobile       | 5.2640        | 4.4018        | 30.0550        | 0.0538        | 5.0325        | 0.0454        | 5.0780        | 1.3427         | 0.0425        | 1.3852        |          | 5,531.0415        | 5,531.0415        | 0.4230        | 0.3405        | 5,643.0963        |
| <b>Total</b> | <b>5.4438</b> | <b>4.7628</b> | <b>30.3677</b> | <b>0.0559</b> | <b>5.0325</b> | <b>0.0729</b> | <b>5.1054</b> | <b>1.3427</b>  | <b>0.0700</b> | <b>1.4127</b> |          | <b>5,964.2417</b> | <b>5,964.2417</b> | <b>0.4313</b> | <b>0.3485</b> | <b>6,078.8720</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 3/1/2023   | 3/30/2023 | 5             | 22       |                   |
| 2            | Grading               | Grading               | 4/3/2023   | 4/30/2023 | 5             | 20       |                   |
| 3            | Building Construction | Building Construction | 5/1/2023   | 7/31/2023 | 5             | 66       |                   |
| 4            | Paving                | Paving                | 5/1/2023   | 5/12/2023 | 5             | 10       |                   |
| 5            | Architectural Coating | Architectural Coating | 8/1/2023   | 8/14/2023 | 5             | 10       |                   |

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

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

**Acres of Paving: 1.46**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,394; Non-Residential Outdoor: 2,465; Striped Parking Area: 3,862 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Demolition | Tractors/Loaders/Backhoes | 3      | 8.00        | 97          | 0.37        |
| Grading    | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading    | Off-Highway Trucks        | 2      | 8.00        | 402         | 0.38        |
| Grading    | Pavers                    | 1      | 8.00        | 130         | 0.42        |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

|                       |                              |   |      |     |      |
|-----------------------|------------------------------|---|------|-----|------|
| Grading               | Paving Equipment             | 1 | 8.00 | 132 | 0.36 |
| Grading               | Rubber Tired Dozers          | 1 | 8.00 | 247 | 0.40 |
| Grading               | Surfacing Equipment          | 1 | 8.00 | 263 | 0.30 |
| Grading               | Tractors/Loaders/Backhoes    | 1 | 8.00 | 97  | 0.37 |
| Building Construction | Cranes                       | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts                    | 2 | 7.00 | 89  | 0.20 |
| Building Construction | Generator Sets               | 1 | 8.00 | 84  | 0.74 |
| Building Construction | Off-Highway Trucks           | 3 | 8.00 | 402 | 0.38 |
| Building Construction | Rough Terrain Forklifts      | 1 | 8.00 | 100 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes    | 1 | 8.00 | 97  | 0.37 |
| Building Construction | Welders                      | 3 | 8.00 | 46  | 0.45 |
| Paving                | Cement and Mortar Mixers     | 1 | 8.00 | 9   | 0.56 |
| Paving                | Graders                      | 1 | 8.00 | 187 | 0.41 |
| Paving                | Off-Highway Trucks           | 1 | 8.00 | 402 | 0.38 |
| Paving                | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Paving                | Pavers                       | 1 | 8.00 | 130 | 0.42 |
| Paving                | Paving Equipment             | 1 | 8.00 | 132 | 0.36 |
| Paving                | Rollers                      | 2 | 8.00 | 80  | 0.38 |
| Paving                | Tractors/Loaders/Backhoes    | 1 | 8.00 | 97  | 0.37 |
| Architectural Coating | Air Compressors              | 1 | 6.00 | 78  | 0.48 |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 5                       | 13.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 38.00               | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 12                      | 41.00              | 16.00              | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 9                       | 23.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

|                       |   |      |      |      |       |      |       |        |         |      |
|-----------------------|---|------|------|------|-------|------|-------|--------|---------|------|
| Architectural Coating | 1 | 8.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
|-----------------------|---|------|------|------|-------|------|-------|--------|---------|------|

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

**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   |                   |                   |               |     |                   |
| 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>0.6766</b> | <b>0.6766</b> |                | <b>0.6328</b> | <b>0.6328</b> |          | <b>2,324.3959</b> | <b>2,324.3959</b> | <b>0.5893</b> |     | <b>2,339.1278</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.2 Demolition - 2023**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |                    |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Worker       | 0.0475        | 0.0294        | 0.4769        | 1.2800e-003        | 0.1453        | 6.8000e-004        | 0.1460        | 0.0385         | 6.3000e-004        | 0.0392        |          | 130.8064        | 130.8064        | 2.9900e-003        | 3.0500e-003        | 131.7899        |
| <b>Total</b> | <b>0.0475</b> | <b>0.0294</b> | <b>0.4769</b> | <b>1.2800e-003</b> | <b>0.1453</b> | <b>6.8000e-004</b> | <b>0.1460</b> | <b>0.0385</b>  | <b>6.3000e-004</b> | <b>0.0392</b> |          | <b>130.8064</b> | <b>130.8064</b> | <b>2.9900e-003</b> | <b>3.0500e-003</b> | <b>131.7899</b> |

**Mitigated Construction On-Site**

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



Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.2 Demolition - 2023**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |                    |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Worker       | 0.0475        | 0.0294        | 0.4769        | 1.2800e-003        | 0.1453        | 6.8000e-004        | 0.1460        | 0.0385         | 6.3000e-004        | 0.0392        |          | 130.8064        | 130.8064        | 2.9900e-003        | 3.0500e-003        | 131.7899        |
| <b>Total</b> | <b>0.0475</b> | <b>0.0294</b> | <b>0.4769</b> | <b>1.2800e-003</b> | <b>0.1453</b> | <b>6.8000e-004</b> | <b>0.1460</b> | <b>0.0385</b>  | <b>6.3000e-004</b> | <b>0.0392</b> |          | <b>130.8064</b> | <b>130.8064</b> | <b>2.9900e-003</b> | <b>3.0500e-003</b> | <b>131.7899</b> |

**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 |               |                |                |               | 7.0845        | 0.0000        | 7.0845        | 3.4250         | 0.0000        | 3.4250        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7728        | 25.9907        | 20.6659        | 0.0603        |               | 1.0494        | 1.0494        |                | 0.9655        | 0.9655        |          | 5,833.4472        | 5,833.4472        | 1.8867        |     | 5,880.6136        |
| <b>Total</b>  | <b>2.7728</b> | <b>25.9907</b> | <b>20.6659</b> | <b>0.0603</b> | <b>7.0845</b> | <b>1.0494</b> | <b>8.1339</b> | <b>3.4250</b>  | <b>0.9655</b> | <b>4.3905</b> |          | <b>5,833.4472</b> | <b>5,833.4472</b> | <b>1.8867</b> |     | <b>5,880.6136</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |               |                 |
| Hauling      | 4.1600e-003   | 0.1897        | 0.0522        | 1.0400e-003        | 0.0333        | 2.2900e-003        | 0.0355        | 9.1200e-003    | 2.1900e-003        | 0.0113        |          | 111.4912        | 111.4912        | 1.5800e-003        | 0.0176        | 116.7660        |
| 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       | 0.0731        | 0.0452        | 0.7337        | 1.9700e-003        | 0.2236        | 1.0500e-003        | 0.2246        | 0.0593         | 9.7000e-004        | 0.0603        |          | 201.2406        | 201.2406        | 4.5900e-003        | 4.6900e-003   | 202.7537        |
| <b>Total</b> | <b>0.0772</b> | <b>0.2349</b> | <b>0.7859</b> | <b>3.0100e-003</b> | <b>0.2568</b> | <b>3.3400e-003</b> | <b>0.2601</b> | <b>0.0684</b>  | <b>3.1600e-003</b> | <b>0.0716</b> |          | <b>312.7318</b> | <b>312.7318</b> | <b>6.1700e-003</b> | <b>0.0223</b> | <b>319.5197</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.6248        | 0.0000        | 2.6248        | 1.2690         | 0.0000        | 1.2690        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7728        | 25.9907        | 20.6659        | 0.0603        |               | 1.0494        | 1.0494        |                | 0.9655        | 0.9655        | 0.0000        | 5,833.4472        | 5,833.4472        | 1.8867        |     | 5,880.6136        |
| <b>Total</b>  | <b>2.7728</b> | <b>25.9907</b> | <b>20.6659</b> | <b>0.0603</b> | <b>2.6248</b> | <b>1.0494</b> | <b>3.6742</b> | <b>1.2690</b>  | <b>0.9655</b> | <b>2.2344</b> | <b>0.0000</b> | <b>5,833.4472</b> | <b>5,833.4472</b> | <b>1.8867</b> |     | <b>5,880.6136</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |               |                 |
| Hauling      | 4.1600e-003   | 0.1897        | 0.0522        | 1.0400e-003        | 0.0333        | 2.2900e-003        | 0.0355        | 9.1200e-003    | 2.1900e-003        | 0.0113        |          | 111.4912        | 111.4912        | 1.5800e-003        | 0.0176        | 116.7660        |
| 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       | 0.0731        | 0.0452        | 0.7337        | 1.9700e-003        | 0.2236        | 1.0500e-003        | 0.2246        | 0.0593         | 9.7000e-004        | 0.0603        |          | 201.2406        | 201.2406        | 4.5900e-003        | 4.6900e-003   | 202.7537        |
| <b>Total</b> | <b>0.0772</b> | <b>0.2349</b> | <b>0.7859</b> | <b>3.0100e-003</b> | <b>0.2568</b> | <b>3.3400e-003</b> | <b>0.2601</b> | <b>0.0684</b>  | <b>3.1600e-003</b> | <b>0.0716</b> |          | <b>312.7318</b> | <b>312.7318</b> | <b>6.1700e-003</b> | <b>0.0223</b> | <b>319.5197</b> |

**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     | 3.3689        | 26.1109        | 26.9251        | 0.0689        |               | 1.0646        | 1.0646        |                | 1.0029        | 1.0029        |          | 6,538.3864        | 6,538.3864        | 1.8072        |     | 6,583.5652        |
| <b>Total</b> | <b>3.3689</b> | <b>26.1109</b> | <b>26.9251</b> | <b>0.0689</b> |               | <b>1.0646</b> | <b>1.0646</b> |                | <b>1.0029</b> | <b>1.0029</b> |          | <b>6,538.3864</b> | <b>6,538.3864</b> | <b>1.8072</b> |     | <b>6,583.5652</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.4 Building Construction - 2023**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0180        | 0.5227        | 0.2152        | 2.8000e-003        | 0.1025        | 4.5500e-003        | 0.1070        | 0.0295         | 4.3600e-003        | 0.0339        |          | 296.4336        | 296.4336        | 3.0200e-003   | 0.0438        | 309.5628        |
| Worker       | 0.1498        | 0.0926        | 1.5041        | 4.0300e-003        | 0.4583        | 2.1500e-003        | 0.4604        | 0.1215         | 1.9800e-003        | 0.1235        |          | 412.5432        | 412.5432        | 9.4200e-003   | 9.6200e-003   | 415.6451        |
| <b>Total</b> | <b>0.1678</b> | <b>0.6153</b> | <b>1.7194</b> | <b>6.8300e-003</b> | <b>0.5608</b> | <b>6.7000e-003</b> | <b>0.5675</b> | <b>0.1511</b>  | <b>6.3400e-003</b> | <b>0.1574</b> |          | <b>708.9768</b> | <b>708.9768</b> | <b>0.0124</b> | <b>0.0534</b> | <b>725.2078</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 3.3689        | 26.1109        | 26.9251        | 0.0689        |               | 1.0646        | 1.0646        |                | 1.0029        | 1.0029        | 0.0000        | 6,538.3864        | 6,538.3864        | 1.8072        |     | 6,583.5652        |
| <b>Total</b> | <b>3.3689</b> | <b>26.1109</b> | <b>26.9251</b> | <b>0.0689</b> |               | <b>1.0646</b> | <b>1.0646</b> |                | <b>1.0029</b> | <b>1.0029</b> | <b>0.0000</b> | <b>6,538.3864</b> | <b>6,538.3864</b> | <b>1.8072</b> |     | <b>6,583.5652</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.4 Building Construction - 2023**

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0180        | 0.5227        | 0.2152        | 2.8000e-003        | 0.1025        | 4.5500e-003        | 0.1070        | 0.0295         | 4.3600e-003        | 0.0339        |          | 296.4336        | 296.4336        | 3.0200e-003   | 0.0438        | 309.5628        |
| Worker       | 0.1498        | 0.0926        | 1.5041        | 4.0300e-003        | 0.4583        | 2.1500e-003        | 0.4604        | 0.1215         | 1.9800e-003        | 0.1235        |          | 412.5432        | 412.5432        | 9.4200e-003   | 9.6200e-003   | 415.6451        |
| <b>Total</b> | <b>0.1678</b> | <b>0.6153</b> | <b>1.7194</b> | <b>6.8300e-003</b> | <b>0.5608</b> | <b>6.7000e-003</b> | <b>0.5675</b> | <b>0.1511</b>  | <b>6.3400e-003</b> | <b>0.1574</b> |          | <b>708.9768</b> | <b>708.9768</b> | <b>0.0124</b> | <b>0.0534</b> | <b>725.2078</b> |

**3.5 Paving - 2023**

Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.1160        | 20.2685        | 20.6677        | 0.0439        |               | 0.8925        | 0.8925        |                | 0.8223        | 0.8223        |          | 4,228.9979        | 4,228.9979        | 1.3567        |     | 4,262.9141        |
| Paving       | 0.2017        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.3177</b> | <b>20.2685</b> | <b>20.6677</b> | <b>0.0439</b> |               | <b>0.8925</b> | <b>0.8925</b> |                | <b>0.8223</b> | <b>0.8223</b> |          | <b>4,228.9979</b> | <b>4,228.9979</b> | <b>1.3567</b> |     | <b>4,262.9141</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.5 Paving - 2023**

**Unmitigated Construction 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       | 0.0840        | 0.0519        | 0.8438        | 2.2600e-003        | 0.2571        | 1.2100e-003        | 0.2583        | 0.0682         | 1.1100e-003        | 0.0693        |          | 231.4267        | 231.4267        | 5.2800e-003        | 5.4000e-003        | 233.1667        |
| <b>Total</b> | <b>0.0840</b> | <b>0.0519</b> | <b>0.8438</b> | <b>2.2600e-003</b> | <b>0.2571</b> | <b>1.2100e-003</b> | <b>0.2583</b> | <b>0.0682</b>  | <b>1.1100e-003</b> | <b>0.0693</b> |          | <b>231.4267</b> | <b>231.4267</b> | <b>5.2800e-003</b> | <b>5.4000e-003</b> | <b>233.1667</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 2.1160        | 20.2685        | 20.6677        | 0.0439        |               | 0.8925        | 0.8925        |                | 0.8223        | 0.8223        | 0.0000        | 4,228.9979        | 4,228.9979        | 1.3567        |     | 4,262.9141        |
| Paving       | 0.2017        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.3177</b> | <b>20.2685</b> | <b>20.6677</b> | <b>0.0439</b> |               | <b>0.8925</b> | <b>0.8925</b> |                | <b>0.8223</b> | <b>0.8223</b> | <b>0.0000</b> | <b>4,228.9979</b> | <b>4,228.9979</b> | <b>1.3567</b> |     | <b>4,262.9141</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.5 Paving - 2023**

**Mitigated Construction 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       | 0.0840        | 0.0519        | 0.8438        | 2.2600e-003        | 0.2571        | 1.2100e-003        | 0.2583        | 0.0682         | 1.1100e-003        | 0.0693        |          | 231.4267        | 231.4267        | 5.2800e-003        | 5.4000e-003        | 233.1667        |
| <b>Total</b> | <b>0.0840</b> | <b>0.0519</b> | <b>0.8438</b> | <b>2.2600e-003</b> | <b>0.2571</b> | <b>1.2100e-003</b> | <b>0.2583</b> | <b>0.0682</b>  | <b>1.1100e-003</b> | <b>0.0693</b> |          | <b>231.4267</b> | <b>231.4267</b> | <b>5.2800e-003</b> | <b>5.4000e-003</b> | <b>233.1667</b> |

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 6.3597        |               |               |                    |               | 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>6.5513</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> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

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

**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 | 6.3597        |               |               |                    |               | 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>6.5513</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> |



Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

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

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 5.2640 | 4.4018 | 30.0550 | 0.0538 | 5.0325        | 0.0454       | 5.0780     | 1.3427         | 0.0425        | 1.3852      |          | 5,531.0415 | 5,531.0415 | 0.4230 | 0.3405 | 5,643.0963 |
| Unmitigated | 5.2640 | 4.4018 | 30.0550 | 0.0538 | 5.0325        | 0.0454       | 5.0780     | 1.3427         | 0.0425        | 1.3852      |          | 5,531.0415 | 5,531.0415 | 0.4230 | 0.3405 | 5,643.0963 |

**4.2 Trip Summary Information**

| Land Use                             | Average Daily Trip Rate |                 |                 | Unmitigated      | Mitigated        |
|--------------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
|                                      | Weekday                 | Saturday        | Sunday          | Annual VMT       | Annual VMT       |
| City Park                            | 0.00                    | 0.00            | 0.00            |                  |                  |
| Fast Food Restaurant with Drive Thru | 2,263.00                | 2,263.00        | 2,263.00        | 2,381,551        | 2,381,551        |
| Other Non-Asphalt Surfaces           | 0.00                    | 0.00            | 0.00            |                  |                  |
| Parking Lot                          | 0.00                    | 0.00            | 0.00            |                  |                  |
| <b>Total</b>                         | <b>2,263.00</b>         | <b>2,263.00</b> | <b>2,263.00</b> | <b>2,381,551</b> | <b>2,381,551</b> |

**4.3 Trip Type Information**

| Land Use                        | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                 | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park                       | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |
| Fast Food Restaurant with Drive | 16.60      | 8.40       | 6.90        | 2.20       | 78.80      | 19.00       | 29             | 21       | 50      |
| Other Non-Asphalt Surfaces      | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                     | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

**4.4 Fleet Mix**

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

| Land Use                             | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park                            | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Fast Food Restaurant with Drive Thru | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Other Non-Asphalt Surfaces           | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Parking Lot                          | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |

**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   | 0.0397 | 0.3610 | 0.3032 | 2.1700e-003 |               | 0.0274       | 0.0274     |                | 0.0274        | 0.0274      |          | 433.1801  | 433.1801  | 8.3000e-003 | 7.9400e-003 | 435.7542 |
| NaturalGas Unmitigated | 0.0397 | 0.3610 | 0.3032 | 2.1700e-003 |               | 0.0274       | 0.0274     |                | 0.0274        | 0.0274      |          | 433.1801  | 433.1801  | 8.3000e-003 | 7.9400e-003 | 435.7542 |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

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

**Unmitigated**

|                                      | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                             | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| City Park                            | 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          |
| Fast Food Restaurant with Drive Thru | 3682.03         | 0.0397        | 0.3610        | 0.3032        | 2.1700e-003        |               | 0.0274        | 0.0274        |                | 0.0274        | 0.0274        |          | 433.1801        | 433.1801        | 8.3000e-003        | 7.9400e-003        | 435.7542        |
| Other Non-Asphalt Surfaces           | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                          | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>                         |                 | <b>0.0397</b> | <b>0.3610</b> | <b>0.3032</b> | <b>2.1700e-003</b> |               | <b>0.0274</b> | <b>0.0274</b> |                | <b>0.0274</b> | <b>0.0274</b> |          | <b>433.1801</b> | <b>433.1801</b> | <b>8.3000e-003</b> | <b>7.9400e-003</b> | <b>435.7542</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

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

Mitigated

|                                      | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                             | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| City Park                            | 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          |
| Fast Food Restaurant with Drive Thru | 3.68203         | 0.0397        | 0.3610        | 0.3032        | 2.1700e-003        |               | 0.0274        | 0.0274        |                | 0.0274        | 0.0274        |          | 433.1801        | 433.1801        | 8.3000e-003        | 7.9400e-003        | 435.7542        |
| Other Non-Asphalt Surfaces           | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                          | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>                         |                 | <b>0.0397</b> | <b>0.3610</b> | <b>0.3032</b> | <b>2.1700e-003</b> |               | <b>0.0274</b> | <b>0.0274</b> |                | <b>0.0274</b> | <b>0.0274</b> |          | <b>433.1801</b> | <b>433.1801</b> | <b>8.3000e-003</b> | <b>7.9400e-003</b> | <b>435.7542</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

|             | ROG    | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e   |
|-------------|--------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category    | lb/day |             |             |        |               |              |             |                |               |             | lb/day   |           |           |             |     |        |
| Mitigated   | 0.1401 | 9.0000e-005 | 9.4200e-003 | 0.0000 |               | 3.0000e-005  | 3.0000e-005 |                | 3.0000e-005   | 3.0000e-005 |          | 0.0202    | 0.0202    | 5.0000e-005 |     | 0.0215 |
| Unmitigated | 0.1401 | 9.0000e-005 | 9.4200e-003 | 0.0000 |               | 3.0000e-005  | 3.0000e-005 |                | 3.0000e-005   | 3.0000e-005 |          | 0.0202    | 0.0202    | 5.0000e-005 |     | 0.0215 |

**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 | 0.0174        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.1218        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 8.7000e-004   | 9.0000e-005        | 9.4200e-003        | 0.0000        |               | 3.0000e-005        | 3.0000e-005        |                | 3.0000e-005        | 3.0000e-005        |          | 0.0202        | 0.0202        | 5.0000e-005        |     | 0.0215        |
| <b>Total</b>          | <b>0.1401</b> | <b>9.0000e-005</b> | <b>9.4200e-003</b> | <b>0.0000</b> |               | <b>3.0000e-005</b> | <b>3.0000e-005</b> |                | <b>3.0000e-005</b> | <b>3.0000e-005</b> |          | <b>0.0202</b> | <b>0.0202</b> | <b>5.0000e-005</b> |     | <b>0.0215</b> |

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |                    |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0174        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.1218        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 8.7000e-004   | 9.0000e-005        | 9.4200e-003        | 0.0000        |               | 3.0000e-005        | 3.0000e-005        |                | 3.0000e-005        | 3.0000e-005        |          | 0.0202        | 0.0202        | 5.0000e-005        |     | 0.0215        |
| <b>Total</b>          | <b>0.1401</b> | <b>9.0000e-005</b> | <b>9.4200e-003</b> | <b>0.0000</b> |               | <b>3.0000e-005</b> | <b>3.0000e-005</b> |                | <b>3.0000e-005</b> | <b>3.0000e-005</b> |          | <b>0.0202</b> | <b>0.0202</b> | <b>5.0000e-005</b> |     | <b>0.0215</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Menifee Chick-fil-A - Riverside-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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

**Menifee Chick-fil-A  
Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                            | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|--------------------------------------|-------|----------|-------------|--------------------|------------|
| Other Non-Asphalt Surfaces           | 0.69  | Acre     | 0.69        | 29,969.28          | 0          |
| Parking Lot                          | 86.00 | Space    | 0.77        | 34,400.00          | 0          |
| City Park                            | 0.64  | Acre     | 0.64        | 27,747.72          | 0          |
| Fast Food Restaurant with Drive Thru | 4.93  | 1000sqft | 0.11        | 4,929.00           | 0          |

**1.2 Other Project Characteristics**

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.4   | <b>Precipitation Freq (Days)</b> | 28    |
| <b>Climate Zone</b>            | 10                         |                                |       | <b>Operational Year</b>          | 2023  |
| <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 - Per PD

Construction Phase - per AQ Questionnaire

Off-road Equipment -

Off-road Equipment - per AQ questionnaire

As conservative analysis, we assume the construction take place 8 hours per day

Off-road Equipment -

Off-road Equipment - per AQ questionnaire

as an conservative analysis, we assume the construction take place 8 hours per day.

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

Off-road Equipment - per AQ questionnaire

As conservative analysis, we assume the construction take place 8 hours per day

Trips and VMT -

Grading -

Vehicle Trips - per traffic study -- TOTAL TRIP GENERATION

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Waste Mitigation - AB341

| Table Name             | Column Name                  | Default Value | New Value |
|------------------------|------------------------------|---------------|-----------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0             | 15        |
| tblConstructionPhase   | NumDays                      | 220.00        | 66.00     |
| tblConstructionPhase   | NumDays                      | 20.00         | 22.00     |
| tblConstructionPhase   | NumDays                      | 6.00          | 20.00     |
| tblGrading             | MaterialExported             | 0.00          | 300.00    |
| tblLandUse             | LandUseSquareFeet            | 30,056.40     | 29,969.28 |
| tblLandUse             | LandUseSquareFeet            | 27,878.40     | 27,747.72 |
| tblLandUse             | LandUseSquareFeet            | 4,930.00      | 4,929.00  |
| tblOffRoadEquipment    | OffRoadEquipmentUnitAmount   | 2.00          | 1.00      |
| tblOffRoadEquipment    | UsageHours                   | 6.00          | 8.00      |
| tblOffRoadEquipment    | UsageHours                   | 7.00          | 8.00      |
| tblVehicleTrips        | ST_TR                        | 1.96          | 0.00      |
| tblVehicleTrips        | ST_TR                        | 616.12        | 459.03    |
| tblVehicleTrips        | SU_TR                        | 2.19          | 0.00      |
| tblVehicleTrips        | SU_TR                        | 472.58        | 459.03    |
| tblVehicleTrips        | WD_TR                        | 0.78          | 0.00      |
| tblVehicleTrips        | WD_TR                        | 470.95        | 459.03    |

**2.0 Emissions Summary**



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

| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 3-1-2023   | 5-31-2023 | 0.8932                                       | 0.8932                                     |
| 2       | 6-1-2023   | 8-31-2023 | 0.6988                                       | 0.6988                                     |
|         |            | Highest   | 0.8932                                       | 0.8932                                     |

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-----------------|-----------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr          |                 |                 |               |               |                   |
| Area         | 0.0255        | 1.0000e-005   | 1.1800e-003   | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000         | 2.2900e-003     | 2.2900e-003     | 1.0000e-005   | 0.0000        | 2.4400e-003       |
| Energy       | 7.2500e-003   | 0.0659        | 0.0553        | 4.0000e-004        |               | 5.0100e-003   | 5.0100e-003   |                | 5.0100e-003   | 5.0100e-003   | 0.0000         | 114.2032        | 114.2032        | 4.9600e-003   | 1.7500e-003   | 114.8485          |
| Mobile       | 0.7785        | 0.8464        | 5.2727        | 9.2600e-003        | 0.9008        | 8.2700e-003   | 0.9091        | 0.2407         | 7.7300e-003   | 0.2484        | 0.0000         | 864.4188        | 864.4188        | 0.0743        | 0.0576        | 883.4439          |
| Waste        |               |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 11.5400        | 0.0000          | 11.5400         | 0.6820        | 0.0000        | 28.5900           |
| Water        |               |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.4748         | 5.1462          | 5.6210          | 0.0492        | 1.2000e-003   | 7.2096            |
| <b>Total</b> | <b>0.8112</b> | <b>0.9123</b> | <b>5.3293</b> | <b>9.6600e-003</b> | <b>0.9008</b> | <b>0.0133</b> | <b>0.9141</b> | <b>0.2407</b>  | <b>0.0127</b> | <b>0.2534</b> | <b>12.0148</b> | <b>983.7704</b> | <b>995.7852</b> | <b>0.8105</b> | <b>0.0606</b> | <b>1,034.0944</b> |

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

**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                   |
| Area         | 0.0255        | 1.0000e-005   | 1.1800e-003   | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 2.2900e-003     | 2.2900e-003     | 1.0000e-005   | 0.0000        | 2.4400e-003       |
| Energy       | 7.2500e-003   | 0.0659        | 0.0553        | 4.0000e-004        |               | 5.0100e-003   | 5.0100e-003   |                | 5.0100e-003   | 5.0100e-003   | 0.0000        | 114.2032        | 114.2032        | 4.9600e-003   | 1.7500e-003   | 114.8485          |
| Mobile       | 0.7785        | 0.8464        | 5.2727        | 9.2600e-003        | 0.9008        | 8.2700e-003   | 0.9091        | 0.2407         | 7.7300e-003   | 0.2484        | 0.0000        | 864.4188        | 864.4188        | 0.0743        | 0.0576        | 883.4439          |
| Waste        |               |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 2.8850        | 0.0000          | 2.8850          | 0.1705        | 0.0000        | 7.1475            |
| Water        |               |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.4748        | 5.1462          | 5.6210          | 0.0492        | 1.2000e-003   | 7.2096            |
| <b>Total</b> | <b>0.8112</b> | <b>0.9123</b> | <b>5.3293</b> | <b>9.6600e-003</b> | <b>0.9008</b> | <b>0.0133</b> | <b>0.9141</b> | <b>0.2407</b>  | <b>0.0127</b> | <b>0.2534</b> | <b>3.3598</b> | <b>983.7704</b> | <b>987.1302</b> | <b>0.2990</b> | <b>0.0606</b> | <b>1,012.6520</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2     | NBio- CO2   | Total CO2   | CH4          | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>72.04</b> | <b>0.00</b> | <b>0.87</b> | <b>63.11</b> | <b>0.00</b> | <b>2.07</b> |

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 3/1/2023   | 3/30/2023 | 5             | 22       |                   |
| 2            | Grading               | Grading               | 4/3/2023   | 4/30/2023 | 5             | 20       |                   |
| 3            | Building Construction | Building Construction | 5/1/2023   | 7/31/2023 | 5             | 66       |                   |

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|   |                       |                       |          |           |   |    |
|---|-----------------------|-----------------------|----------|-----------|---|----|
| 4 | Paving                | Paving                | 5/1/2023 | 5/12/2023 | 5 | 10 |
| 5 | Architectural Coating | Architectural Coating | 8/1/2023 | 8/14/2023 | 5 | 10 |

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

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

**Acres of Paving: 1.46**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,394; Non-Residential Outdoor: 2,465; Striped Parking Area: 3,862 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Demolition            | Tractors/Loaders/Backhoes | 3      | 8.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Off-Highway Trucks        | 2      | 8.00        | 402         | 0.38        |
| Grading               | Pavers                    | 1      | 8.00        | 130         | 0.42        |
| Grading               | Paving Equipment          | 1      | 8.00        | 132         | 0.36        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Surfacing Equipment       | 1      | 8.00        | 263         | 0.30        |
| Grading               | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 7.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Off-Highway Trucks        | 3      | 8.00        | 402         | 0.38        |
| Building Construction | Rough Terrain Forklifts   | 1      | 8.00        | 100         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Building Construction | Welders                   | 3      | 8.00        | 46          | 0.45        |
| Paving                | Cement and Mortar Mixers  | 1      | 8.00        | 9           | 0.56        |

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

|                       |                              |   |      |     |      |
|-----------------------|------------------------------|---|------|-----|------|
| Paving                | Graders                      | 1 | 8.00 | 187 | 0.41 |
| Paving                | Off-Highway Trucks           | 1 | 8.00 | 402 | 0.38 |
| Paving                | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Paving                | Pavers                       | 1 | 8.00 | 130 | 0.42 |
| Paving                | Paving Equipment             | 1 | 8.00 | 132 | 0.36 |
| Paving                | Rollers                      | 2 | 8.00 | 80  | 0.38 |
| Paving                | Tractors/Loaders/Backhoes    | 1 | 8.00 | 97  | 0.37 |
| Architectural Coating | Air Compressors              | 1 | 6.00 | 78  | 0.48 |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 5                       | 13.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 38.00               | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 12                      | 41.00              | 16.00              | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 9                       | 23.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

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

**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     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0162        | 0.1575        | 0.1480        | 2.7000e-004        |               | 7.4400e-003        | 7.4400e-003        |                | 6.9600e-003        | 6.9600e-003        | 0.0000        | 23.1952        | 23.1952        | 5.8800e-003        | 0.0000        | 23.3422        |
| <b>Total</b> | <b>0.0162</b> | <b>0.1575</b> | <b>0.1480</b> | <b>2.7000e-004</b> |               | <b>7.4400e-003</b> | <b>7.4400e-003</b> |                | <b>6.9600e-003</b> | <b>6.9600e-003</b> | <b>0.0000</b> | <b>23.1952</b> | <b>23.1952</b> | <b>5.8800e-003</b> | <b>0.0000</b> | <b>23.3422</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |                    |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Worker       | 4.6000e-004        | 3.4000e-004        | 4.4900e-003        | 1.0000e-005        | 1.5700e-003        | 1.0000e-005        | 1.5800e-003        | 4.2000e-004        | 1.0000e-005        | 4.2000e-004        | 0.0000        | 1.2103        | 1.2103        | 3.0000e-005        | 3.0000e-005        | 1.2205        |
| <b>Total</b> | <b>4.6000e-004</b> | <b>3.4000e-004</b> | <b>4.4900e-003</b> | <b>1.0000e-005</b> | <b>1.5700e-003</b> | <b>1.0000e-005</b> | <b>1.5800e-003</b> | <b>4.2000e-004</b> | <b>1.0000e-005</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.2103</b> | <b>1.2103</b> | <b>3.0000e-005</b> | <b>3.0000e-005</b> | <b>1.2205</b> |



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

**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     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0162        | 0.1575        | 0.1480        | 2.7000e-004        |               | 7.4400e-003        | 7.4400e-003        |                | 6.9600e-003        | 6.9600e-003        | 0.0000        | 23.1952        | 23.1952        | 5.8800e-003        | 0.0000        | 23.3422        |
| <b>Total</b> | <b>0.0162</b> | <b>0.1575</b> | <b>0.1480</b> | <b>2.7000e-004</b> |               | <b>7.4400e-003</b> | <b>7.4400e-003</b> |                | <b>6.9600e-003</b> | <b>6.9600e-003</b> | <b>0.0000</b> | <b>23.1952</b> | <b>23.1952</b> | <b>5.8800e-003</b> | <b>0.0000</b> | <b>23.3422</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |                    |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Worker       | 4.6000e-004        | 3.4000e-004        | 4.4900e-003        | 1.0000e-005        | 1.5700e-003        | 1.0000e-005        | 1.5800e-003        | 4.2000e-004        | 1.0000e-005        | 4.2000e-004        | 0.0000        | 1.2103        | 1.2103        | 3.0000e-005        | 3.0000e-005        | 1.2205        |
| <b>Total</b> | <b>4.6000e-004</b> | <b>3.4000e-004</b> | <b>4.4900e-003</b> | <b>1.0000e-005</b> | <b>1.5700e-003</b> | <b>1.0000e-005</b> | <b>1.5800e-003</b> | <b>4.2000e-004</b> | <b>1.0000e-005</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.2103</b> | <b>1.2103</b> | <b>3.0000e-005</b> | <b>3.0000e-005</b> | <b>1.2205</b> |

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

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |                    |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0708        | 0.0000        | 0.0708        | 0.0343         | 0.0000             | 0.0343        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0277        | 0.2599        | 0.2067        | 6.0000e-004        |               | 0.0105        | 0.0105        |                | 9.6500e-003        | 9.6500e-003   | 0.0000        | 52.9201        | 52.9201        | 0.0171        | 0.0000        | 53.3480        |
| <b>Total</b>  | <b>0.0277</b> | <b>0.2599</b> | <b>0.2067</b> | <b>6.0000e-004</b> | <b>0.0708</b> | <b>0.0105</b> | <b>0.0813</b> | <b>0.0343</b>  | <b>9.6500e-003</b> | <b>0.0439</b> | <b>0.0000</b> | <b>52.9201</b> | <b>52.9201</b> | <b>0.0171</b> | <b>0.0000</b> | <b>53.3480</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |                    |               |
| Hauling      | 4.0000e-005        | 2.0000e-003        | 5.3000e-004        | 1.0000e-005        | 3.3000e-004        | 2.0000e-005        | 3.5000e-004        | 9.0000e-005        | 2.0000e-005        | 1.1000e-004        | 0.0000        | 1.0121        | 1.0121        | 1.0000e-005        | 1.6000e-004        | 1.0600        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Worker       | 6.5000e-004        | 4.8000e-004        | 6.2800e-003        | 2.0000e-005        | 2.2000e-003        | 1.0000e-005        | 2.2100e-003        | 5.8000e-004        | 1.0000e-005        | 5.9000e-004        | 0.0000        | 1.6927        | 1.6927        | 4.0000e-005        | 4.0000e-005        | 1.7069        |
| <b>Total</b> | <b>6.9000e-004</b> | <b>2.4800e-003</b> | <b>6.8100e-003</b> | <b>3.0000e-005</b> | <b>2.5300e-003</b> | <b>3.0000e-005</b> | <b>2.5600e-003</b> | <b>6.7000e-004</b> | <b>3.0000e-005</b> | <b>7.0000e-004</b> | <b>0.0000</b> | <b>2.7048</b> | <b>2.7048</b> | <b>5.0000e-005</b> | <b>2.0000e-004</b> | <b>2.7669</b> |

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

**3.3 Grading - 2023**

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |                    |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0263        | 0.0000        | 0.0263        | 0.0127         | 0.0000             | 0.0127        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0277        | 0.2599        | 0.2067        | 6.0000e-004        |               | 0.0105        | 0.0105        |                | 9.6500e-003        | 9.6500e-003   | 0.0000        | 52.9201        | 52.9201        | 0.0171        | 0.0000        | 53.3480        |
| <b>Total</b>  | <b>0.0277</b> | <b>0.2599</b> | <b>0.2067</b> | <b>6.0000e-004</b> | <b>0.0263</b> | <b>0.0105</b> | <b>0.0367</b> | <b>0.0127</b>  | <b>9.6500e-003</b> | <b>0.0223</b> | <b>0.0000</b> | <b>52.9201</b> | <b>52.9201</b> | <b>0.0171</b> | <b>0.0000</b> | <b>53.3480</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |                    |               |
| Hauling      | 4.0000e-005        | 2.0000e-003        | 5.3000e-004        | 1.0000e-005        | 3.3000e-004        | 2.0000e-005        | 3.5000e-004        | 9.0000e-005        | 2.0000e-005        | 1.1000e-004        | 0.0000        | 1.0121        | 1.0121        | 1.0000e-005        | 1.6000e-004        | 1.0600        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Worker       | 6.5000e-004        | 4.8000e-004        | 6.2800e-003        | 2.0000e-005        | 2.2000e-003        | 1.0000e-005        | 2.2100e-003        | 5.8000e-004        | 1.0000e-005        | 5.9000e-004        | 0.0000        | 1.6927        | 1.6927        | 4.0000e-005        | 4.0000e-005        | 1.7069        |
| <b>Total</b> | <b>6.9000e-004</b> | <b>2.4800e-003</b> | <b>6.8100e-003</b> | <b>3.0000e-005</b> | <b>2.5300e-003</b> | <b>3.0000e-005</b> | <b>2.5600e-003</b> | <b>6.7000e-004</b> | <b>3.0000e-005</b> | <b>7.0000e-004</b> | <b>0.0000</b> | <b>2.7048</b> | <b>2.7048</b> | <b>5.0000e-005</b> | <b>2.0000e-004</b> | <b>2.7669</b> |

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

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1112        | 0.8617        | 0.8885        | 2.2700e-003        |               | 0.0351        | 0.0351        |                | 0.0331        | 0.0331        | 0.0000        | 195.7403        | 195.7403        | 0.0541        | 0.0000        | 197.0928        |
| <b>Total</b> | <b>0.1112</b> | <b>0.8617</b> | <b>0.8885</b> | <b>2.2700e-003</b> |               | <b>0.0351</b> | <b>0.0351</b> |                | <b>0.0331</b> | <b>0.0331</b> | <b>0.0000</b> | <b>195.7403</b> | <b>195.7403</b> | <b>0.0541</b> | <b>0.0000</b> | <b>197.0928</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Vendor       | 5.7000e-004        | 0.0181        | 7.2100e-003   | 9.0000e-005        | 3.3400e-003   | 1.5000e-004        | 3.4900e-003   | 9.6000e-004        | 1.4000e-004        | 1.1100e-003        | 0.0000        | 8.8836         | 8.8836         | 9.0000e-005        | 1.3100e-003        | 9.2773         |
| Worker       | 4.3900e-003        | 3.2500e-003   | 0.0425        | 1.2000e-004        | 0.0149        | 7.0000e-005        | 0.0149        | 3.9500e-003        | 7.0000e-005        | 4.0100e-003        | 0.0000        | 11.4509        | 11.4509        | 2.8000e-004        | 3.0000e-004        | 11.5474        |
| <b>Total</b> | <b>4.9600e-003</b> | <b>0.0214</b> | <b>0.0497</b> | <b>2.1000e-004</b> | <b>0.0182</b> | <b>2.2000e-004</b> | <b>0.0184</b> | <b>4.9100e-003</b> | <b>2.1000e-004</b> | <b>5.1200e-003</b> | <b>0.0000</b> | <b>20.3345</b> | <b>20.3345</b> | <b>3.7000e-004</b> | <b>1.6100e-003</b> | <b>20.8247</b> |

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

**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1112        | 0.8617        | 0.8885        | 2.2700e-003        |               | 0.0351        | 0.0351        |                | 0.0331        | 0.0331        | 0.0000        | 195.7401        | 195.7401        | 0.0541        | 0.0000        | 197.0926        |
| <b>Total</b> | <b>0.1112</b> | <b>0.8617</b> | <b>0.8885</b> | <b>2.2700e-003</b> |               | <b>0.0351</b> | <b>0.0351</b> |                | <b>0.0331</b> | <b>0.0331</b> | <b>0.0000</b> | <b>195.7401</b> | <b>195.7401</b> | <b>0.0541</b> | <b>0.0000</b> | <b>197.0926</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Vendor       | 5.7000e-004        | 0.0181        | 7.2100e-003   | 9.0000e-005        | 3.3400e-003   | 1.5000e-004        | 3.4900e-003   | 9.6000e-004        | 1.4000e-004        | 1.1100e-003        | 0.0000        | 8.8836         | 8.8836         | 9.0000e-005        | 1.3100e-003        | 9.2773         |
| Worker       | 4.3900e-003        | 3.2500e-003   | 0.0425        | 1.2000e-004        | 0.0149        | 7.0000e-005        | 0.0149        | 3.9500e-003        | 7.0000e-005        | 4.0100e-003        | 0.0000        | 11.4509        | 11.4509        | 2.8000e-004        | 3.0000e-004        | 11.5474        |
| <b>Total</b> | <b>4.9600e-003</b> | <b>0.0214</b> | <b>0.0497</b> | <b>2.1000e-004</b> | <b>0.0182</b> | <b>2.2000e-004</b> | <b>0.0184</b> | <b>4.9100e-003</b> | <b>2.1000e-004</b> | <b>5.1200e-003</b> | <b>0.0000</b> | <b>20.3345</b> | <b>20.3345</b> | <b>3.7000e-004</b> | <b>1.6100e-003</b> | <b>20.8247</b> |

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

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0106        | 0.1013        | 0.1033        | 2.2000e-004        |               | 4.4600e-003        | 4.4600e-003        |                | 4.1100e-003        | 4.1100e-003        | 0.0000        | 19.1824        | 19.1824        | 6.1500e-003        | 0.0000        | 19.3363        |
| Paving       | 1.0100e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0116</b> | <b>0.1013</b> | <b>0.1033</b> | <b>2.2000e-004</b> |               | <b>4.4600e-003</b> | <b>4.4600e-003</b> |                | <b>4.1100e-003</b> | <b>4.1100e-003</b> | <b>0.0000</b> | <b>19.1824</b> | <b>19.1824</b> | <b>6.1500e-003</b> | <b>0.0000</b> | <b>19.3363</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |                    |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Worker       | 3.7000e-004        | 2.8000e-004        | 3.6100e-003        | 1.0000e-005        | 1.2600e-003        | 1.0000e-005        | 1.2700e-003        | 3.4000e-004        | 1.0000e-005        | 3.4000e-004        | 0.0000        | 0.9733        | 0.9733        | 2.0000e-005        | 3.0000e-005        | 0.9815        |
| <b>Total</b> | <b>3.7000e-004</b> | <b>2.8000e-004</b> | <b>3.6100e-003</b> | <b>1.0000e-005</b> | <b>1.2600e-003</b> | <b>1.0000e-005</b> | <b>1.2700e-003</b> | <b>3.4000e-004</b> | <b>1.0000e-005</b> | <b>3.4000e-004</b> | <b>0.0000</b> | <b>0.9733</b> | <b>0.9733</b> | <b>2.0000e-005</b> | <b>3.0000e-005</b> | <b>0.9815</b> |

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**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     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0106        | 0.1013        | 0.1033        | 2.2000e-004        |               | 4.4600e-003        | 4.4600e-003        |                | 4.1100e-003        | 4.1100e-003        | 0.0000        | 19.1824        | 19.1824        | 6.1500e-003        | 0.0000        | 19.3362        |
| Paving       | 1.0100e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0116</b> | <b>0.1013</b> | <b>0.1033</b> | <b>2.2000e-004</b> |               | <b>4.4600e-003</b> | <b>4.4600e-003</b> |                | <b>4.1100e-003</b> | <b>4.1100e-003</b> | <b>0.0000</b> | <b>19.1824</b> | <b>19.1824</b> | <b>6.1500e-003</b> | <b>0.0000</b> | <b>19.3362</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |                    |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Worker       | 3.7000e-004        | 2.8000e-004        | 3.6100e-003        | 1.0000e-005        | 1.2600e-003        | 1.0000e-005        | 1.2700e-003        | 3.4000e-004        | 1.0000e-005        | 3.4000e-004        | 0.0000        | 0.9733        | 0.9733        | 2.0000e-005        | 3.0000e-005        | 0.9815        |
| <b>Total</b> | <b>3.7000e-004</b> | <b>2.8000e-004</b> | <b>3.6100e-003</b> | <b>1.0000e-005</b> | <b>1.2600e-003</b> | <b>1.0000e-005</b> | <b>1.2700e-003</b> | <b>3.4000e-004</b> | <b>1.0000e-005</b> | <b>3.4000e-004</b> | <b>0.0000</b> | <b>0.9733</b> | <b>0.9733</b> | <b>2.0000e-005</b> | <b>3.0000e-005</b> | <b>0.9815</b> |

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**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

|                 | ROG           | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |                    |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.0318        |                    |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 9.6000e-004   | 6.5100e-003        | 9.0600e-003        | 1.0000e-005        |               | 3.5000e-004        | 3.5000e-004        |                | 3.5000e-004        | 3.5000e-004        | 0.0000        | 1.2766        | 1.2766        | 8.0000e-005        | 0.0000        | 1.2785        |
| <b>Total</b>    | <b>0.0328</b> | <b>6.5100e-003</b> | <b>9.0600e-003</b> | <b>1.0000e-005</b> |               | <b>3.5000e-004</b> | <b>3.5000e-004</b> |                | <b>3.5000e-004</b> | <b>3.5000e-004</b> | <b>0.0000</b> | <b>1.2766</b> | <b>1.2766</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>1.2785</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |                    |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Worker       | 1.3000e-004        | 1.0000e-004        | 1.2600e-003        | 0.0000        | 4.4000e-004        | 0.0000        | 4.4000e-004        | 1.2000e-004        | 0.0000        | 1.2000e-004        | 0.0000        | 0.3385        | 0.3385        | 1.0000e-005        | 1.0000e-005        | 0.3414        |
| <b>Total</b> | <b>1.3000e-004</b> | <b>1.0000e-004</b> | <b>1.2600e-003</b> | <b>0.0000</b> | <b>4.4000e-004</b> | <b>0.0000</b> | <b>4.4000e-004</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>0.3385</b> | <b>0.3385</b> | <b>1.0000e-005</b> | <b>1.0000e-005</b> | <b>0.3414</b> |



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**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        | tons/yr       |                    |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.0318        |                    |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 9.6000e-004   | 6.5100e-003        | 9.0600e-003        | 1.0000e-005        |               | 3.5000e-004        | 3.5000e-004        |                | 3.5000e-004        | 3.5000e-004        | 0.0000        | 1.2766        | 1.2766        | 8.0000e-005        | 0.0000        | 1.2785        |
| <b>Total</b>    | <b>0.0328</b> | <b>6.5100e-003</b> | <b>9.0600e-003</b> | <b>1.0000e-005</b> |               | <b>3.5000e-004</b> | <b>3.5000e-004</b> |                | <b>3.5000e-004</b> | <b>3.5000e-004</b> | <b>0.0000</b> | <b>1.2766</b> | <b>1.2766</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>1.2785</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |                    |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Worker       | 1.3000e-004        | 1.0000e-004        | 1.2600e-003        | 0.0000        | 4.4000e-004        | 0.0000        | 4.4000e-004        | 1.2000e-004        | 0.0000        | 1.2000e-004        | 0.0000        | 0.3385        | 0.3385        | 1.0000e-005        | 1.0000e-005        | 0.3414        |
| <b>Total</b> | <b>1.3000e-004</b> | <b>1.0000e-004</b> | <b>1.2600e-003</b> | <b>0.0000</b> | <b>4.4000e-004</b> | <b>0.0000</b> | <b>4.4000e-004</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>0.3385</b> | <b>0.3385</b> | <b>1.0000e-005</b> | <b>1.0000e-005</b> | <b>0.3414</b> |

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**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| Mitigated   | 0.7785  | 0.8464 | 5.2727 | 9.2600e-003 | 0.9008        | 8.2700e-003  | 0.9091     | 0.2407         | 7.7300e-003   | 0.2484      | 0.0000   | 864.4188  | 864.4188  | 0.0743 | 0.0576 | 883.4439 |
| Unmitigated | 0.7785  | 0.8464 | 5.2727 | 9.2600e-003 | 0.9008        | 8.2700e-003  | 0.9091     | 0.2407         | 7.7300e-003   | 0.2484      | 0.0000   | 864.4188  | 864.4188  | 0.0743 | 0.0576 | 883.4439 |

**4.2 Trip Summary Information**

| Land Use                             | Average Daily Trip Rate |                 |                 | Unmitigated      | Mitigated        |
|--------------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
|                                      | Weekday                 | Saturday        | Sunday          | Annual VMT       | Annual VMT       |
| City Park                            | 0.00                    | 0.00            | 0.00            |                  |                  |
| Fast Food Restaurant with Drive Thru | 2,263.00                | 2,263.00        | 2263.00         | 2,381,551        | 2,381,551        |
| Other Non-Asphalt Surfaces           | 0.00                    | 0.00            | 0.00            |                  |                  |
| Parking Lot                          | 0.00                    | 0.00            | 0.00            |                  |                  |
| <b>Total</b>                         | <b>2,263.00</b>         | <b>2,263.00</b> | <b>2,263.00</b> | <b>2,381,551</b> | <b>2,381,551</b> |

**4.3 Trip Type Information**

| Land Use                        | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                 | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park                       | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |
| Fast Food Restaurant with Drive | 16.60      | 8.40       | 6.90        | 2.20       | 78.80      | 19.00       | 29             | 21       | 50      |
| Other Non-Asphalt Surfaces      | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

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| 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 |
| Parking Lot | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

**4.4 Fleet Mix**

| Land Use                             | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park                            | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Fast Food Restaurant with Drive Thru | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Other Non-Asphalt Surfaces           | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Parking Lot                          | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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|                         | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category                | tons/yr     |        |        |             |               |              |             |                |               |             | MT/yr    |           |           |             |             |         |
| Electricity Mitigated   |             |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 42.4854   | 42.4854   | 3.5900e-003 | 4.3000e-004 | 42.7045 |
| Electricity Unmitigated |             |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 42.4854   | 42.4854   | 3.5900e-003 | 4.3000e-004 | 42.7045 |
| Natural Gas Mitigated   | 7.2500e-003 | 0.0659 | 0.0553 | 4.0000e-004 |               | 5.0100e-003  | 5.0100e-003 |                | 5.0100e-003   | 5.0100e-003 | 0.0000   | 71.7178   | 71.7178   | 1.3700e-003 | 1.3100e-003 | 72.1440 |
| Natural Gas Unmitigated | 7.2500e-003 | 0.0659 | 0.0553 | 4.0000e-004 |               | 5.0100e-003  | 5.0100e-003 |                | 5.0100e-003   | 5.0100e-003 | 0.0000   | 71.7178   | 71.7178   | 1.3700e-003 | 1.3100e-003 | 72.1440 |

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

**Unmitigated**

|                                      | Natural Gas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------------|-----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                             | kBTU/yr         | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |                    |                |
| City Park                            | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Fast Food Restaurant with Drive Thru | 1.34394e+006    | 7.2500e-003        | 0.0659        | 0.0553        | 4.0000e-004        |               | 5.0100e-003        | 5.0100e-003        |                | 5.0100e-003        | 5.0100e-003        | 0.0000        | 71.7178        | 71.7178        | 1.3700e-003        | 1.3100e-003        | 72.1440        |
| Other Non-Asphalt Surfaces           | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Parking Lot                          | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| <b>Total</b>                         |                 | <b>7.2500e-003</b> | <b>0.0659</b> | <b>0.0553</b> | <b>4.0000e-004</b> |               | <b>5.0100e-003</b> | <b>5.0100e-003</b> |                | <b>5.0100e-003</b> | <b>5.0100e-003</b> | <b>0.0000</b> | <b>71.7178</b> | <b>71.7178</b> | <b>1.3700e-003</b> | <b>1.3100e-003</b> | <b>72.1440</b> |

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

Mitigated

|                                      | Natural Gas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------------|-----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                             | kBTU/yr         | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |                    |                |
| City Park                            | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Fast Food Restaurant with Drive Thru | 1.34394e+006    | 7.2500e-003        | 0.0659        | 0.0553        | 4.0000e-004        |               | 5.0100e-003        | 5.0100e-003        |                | 5.0100e-003        | 5.0100e-003        | 0.0000        | 71.7178        | 71.7178        | 1.3700e-003        | 1.3100e-003        | 72.1440        |
| Other Non-Asphalt Surfaces           | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Parking Lot                          | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| <b>Total</b>                         |                 | <b>7.2500e-003</b> | <b>0.0659</b> | <b>0.0553</b> | <b>4.0000e-004</b> |               | <b>5.0100e-003</b> | <b>5.0100e-003</b> |                | <b>5.0100e-003</b> | <b>5.0100e-003</b> | <b>0.0000</b> | <b>71.7178</b> | <b>71.7178</b> | <b>1.3700e-003</b> | <b>1.3100e-003</b> | <b>72.1440</b> |

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|                                      | Electricity Use | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use                             | kWh/yr          | MT/yr          |                    |                    |                |
| City Park                            | 0               | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Fast Food Restaurant with Drive Thru | 227523          | 40.3501        | 3.4100e-003        | 4.1000e-004        | 40.5583        |
| Other Non-Asphalt Surfaces           | 0               | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Parking Lot                          | 12040           | 2.1352         | 1.8000e-004        | 2.0000e-005        | 2.1463         |
| <b>Total</b>                         |                 | <b>42.4854</b> | <b>3.5900e-003</b> | <b>4.3000e-004</b> | <b>42.7046</b> |

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

| Land Use                             | Electricity Use<br>kWh/yr | Total CO2<br>MT/yr | CH4<br>MT/yr       | N2O<br>MT/yr       | CO2e<br>MT/yr  |
|--------------------------------------|---------------------------|--------------------|--------------------|--------------------|----------------|
| City Park                            | 0                         | 0.0000             | 0.0000             | 0.0000             | 0.0000         |
| Fast Food Restaurant with Drive Thru | 227523                    | 40.3501            | 3.4100e-003        | 4.1000e-004        | 40.5583        |
| Other Non-Asphalt Surfaces           | 0                         | 0.0000             | 0.0000             | 0.0000             | 0.0000         |
| Parking Lot                          | 12040                     | 2.1352             | 1.8000e-004        | 2.0000e-005        | 2.1463         |
| <b>Total</b>                         |                           | <b>42.4854</b>     | <b>3.5900e-003</b> | <b>4.3000e-004</b> | <b>42.7046</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



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

|             | ROG     | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4         | N2O    | CO2e        |
|-------------|---------|-------------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|--------|-------------|
| Category    | tons/yr |             |             |        |               |              |            |                |               |             | MT/yr    |             |             |             |        |             |
| Mitigated   | 0.0255  | 1.0000e-005 | 1.1800e-003 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.2900e-003 | 2.2900e-003 | 1.0000e-005 | 0.0000 | 2.4400e-003 |
| Unmitigated | 0.0255  | 1.0000e-005 | 1.1800e-003 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.2900e-003 | 2.2900e-003 | 1.0000e-005 | 0.0000 | 2.4400e-003 |

**6.2 Area by SubCategory**

Unmitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4                | N2O           | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory           | tons/yr       |                    |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |                    |               |                    |
| Architectural Coating | 3.1800e-003   |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             |
| Consumer Products     | 0.0222        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             |
| Landscaping           | 1.1000e-004   | 1.0000e-005        | 1.1800e-003        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 2.2900e-003        | 2.2900e-003        | 1.0000e-005        | 0.0000        | 2.4400e-003        |
| <b>Total</b>          | <b>0.0255</b> | <b>1.0000e-005</b> | <b>1.1800e-003</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>2.2900e-003</b> | <b>2.2900e-003</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>2.4400e-003</b> |

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

**6.2 Area by SubCategory**

Mitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4                | N2O           | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory           | tons/yr       |                    |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |                    |               |                    |
| Architectural Coating | 3.1800e-003   |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             |
| Consumer Products     | 0.0222        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             |
| Landscaping           | 1.1000e-004   | 1.0000e-005        | 1.1800e-003        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 2.2900e-003        | 2.2900e-003        | 1.0000e-005        | 0.0000        | 2.4400e-003        |
| <b>Total</b>          | <b>0.0255</b> | <b>1.0000e-005</b> | <b>1.1800e-003</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>2.2900e-003</b> | <b>2.2900e-003</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>2.4400e-003</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

|             | Total CO2 | CH4    | N2O         | CO2e   |
|-------------|-----------|--------|-------------|--------|
| Category    | MT/yr     |        |             |        |
| Mitigated   | 5.6210    | 0.0492 | 1.2000e-003 | 7.2096 |
| Unmitigated | 5.6210    | 0.0492 | 1.2000e-003 | 7.2096 |

**7.2 Water by Land Use**

**Unmitigated**

|                                      | Indoor/Outdoor Use  | Total CO2     | CH4           | N2O                | CO2e          |
|--------------------------------------|---------------------|---------------|---------------|--------------------|---------------|
| Land Use                             | Mgal                | MT/yr         |               |                    |               |
| City Park                            | 0 / 0.762548        | 1.5025        | 1.3000e-004   | 2.0000e-005        | 1.5102        |
| Fast Food Restaurant with Drive Thru | 1.49642 / 0.0955162 | 4.1185        | 0.0491        | 1.1900e-003        | 5.6994        |
| Other Non-Asphalt Surfaces           | 0 / 0               | 0.0000        | 0.0000        | 0.0000             | 0.0000        |
| Parking Lot                          | 0 / 0               | 0.0000        | 0.0000        | 0.0000             | 0.0000        |
| <b>Total</b>                         |                     | <b>5.6210</b> | <b>0.0492</b> | <b>1.2100e-003</b> | <b>7.2096</b> |

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

**7.2 Water by Land Use**

Mitigated

|                                      | Indoor/Outdoor Use  | Total CO2     | CH4           | N2O                | CO2e          |
|--------------------------------------|---------------------|---------------|---------------|--------------------|---------------|
| Land Use                             | Mgal                | MT/yr         |               |                    |               |
| City Park                            | 0 / 0.762548        | 1.5025        | 1.3000e-004   | 2.0000e-005        | 1.5102        |
| Fast Food Restaurant with Drive Thru | 1.49642 / 0.0955162 | 4.1185        | 0.0491        | 1.1900e-003        | 5.6994        |
| Other Non-Asphalt Surfaces           | 0 / 0               | 0.0000        | 0.0000        | 0.0000             | 0.0000        |
| Parking Lot                          | 0 / 0               | 0.0000        | 0.0000        | 0.0000             | 0.0000        |
| <b>Total</b>                         |                     | <b>5.6210</b> | <b>0.0492</b> | <b>1.2100e-003</b> | <b>7.2096</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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

Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 2.8850    | 0.1705 | 0.0000 | 7.1475  |
| Unmitigated | 11.5400   | 0.6820 | 0.0000 | 28.5900 |

**8.2 Waste by Land Use**

Unmitigated

|                                      | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|--------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use                             | tons           | MT/yr          |               |               |                |
| City Park                            | 0.06           | 0.0122         | 7.2000e-004   | 0.0000        | 0.0302         |
| Fast Food Restaurant with Drive Thru | 56.79          | 11.5279        | 0.6813        | 0.0000        | 28.5598        |
| Other Non-Asphalt Surfaces           | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Parking Lot                          | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>                         |                | <b>11.5400</b> | <b>0.6820</b> | <b>0.0000</b> | <b>28.5900</b> |

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

**8.2 Waste by Land Use**

**Mitigated**

|                                      | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|--------------------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use                             | tons           | MT/yr         |               |               |               |
| City Park                            | 0.015          | 3.0400e-003   | 1.8000e-004   | 0.0000        | 7.5400e-003   |
| Fast Food Restaurant with Drive Thru | 14.1975        | 2.8820        | 0.1703        | 0.0000        | 7.1399        |
| Other Non-Asphalt Surfaces           | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Parking Lot                          | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>                         |                | <b>2.8850</b> | <b>0.1705</b> | <b>0.0000</b> | <b>7.1475</b> |

**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**

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

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

**11.0 Vegetation**

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**Menifee Chick-fil-A Project**  
**Energy Calculations**  
**Operational Electricity and Natural Gas Consumption**

| Land Use                             | Natural Gas Use  |               | Electricity Use |            |
|--------------------------------------|------------------|---------------|-----------------|------------|
|                                      | (kBTU/yr)        | (Therms)      | (kWh/yr)        | (MWh/yr)   |
| City Park                            | 0                | 0             | 0               | 0          |
| Fast Food Restaurant With Drive Thru | 1,343,940        | 13,439        | 227,523         | 228        |
| Other Non-Asphalt Surfaces           | 0                | 0             | 0               | 0          |
| Parking Lot                          | 0                | 0             | 12,040          | 12         |
| <b>Totals</b>                        | <b>1,343,940</b> | <b>13,439</b> | <b>239,563</b>  | <b>240</b> |

1 kBTU = 0.01 therms

| Energy Type          | Project Annual Energy Consumption | Riverside County Energy Consumption (2020) | Percentage Increase Countywide |
|----------------------|-----------------------------------|--|--------------------------------|
| Electricity (MWh)    | 240                               | 16,857,931                                 | 0.0014%                        |
| Natural Gas (Therms) | 13,439                            | 436,941,555                                | 0.0031%                        |

Source: Refer to CalEEMod outputs for assumptions used in this analysis.



**Menifee Chick-fil-A Project  
Energy Calculations**

| <b>WORKER TRIPS</b>  |                                  |                        |                            |                  |   |                               |
|--|----------------------------------|------------------------|----------------------------|------------------|---|-------------------------------|
| <b>Phase</b>   | <b>Phase Length<br/>(# days)</b> | <b># Worker Trips</b>  | <b>Worker Trip Length</b>  | <b>Total VMT</b> | <b>Fuel Consumption Factor<br/>(Miles/Gallon/Day)</b>             | <b>Total Fuel Consumption</b> |
| Demolition   | 22                               | 13                     | 14.7                       | 4,204            |   | 168.82                        |
| Grading  | 20                               | 20                     | 14.7                       | 5,880            |   |                               |
| Building Construction  | 66                               | 41                     | 14.7                       | 39,778           | <b>24.90284233</b>  | 1,597.34                      |
| Architectural Coating  | 10                               | 8                      | 14.7                       | 1,176            |   | 47.22                         |
| Paving   | 10                               | 23                     | 14.7                       | 3,381            |   | 135.77                        |
|  |                                  |                        |                            |                  |   | <b>1,949.15</b>               |
| <b>VENDOR TRIPS</b>  |                                  |                        |                            |                  |   |                               |
| <b>Phase</b>   | <b>Phase Length<br/>(# days)</b> | <b># Vendor Trips</b>  | <b>Vendor Trip Length</b>  | <b>Total VMT</b> | <b>Fuel Consumption Factor<br/>(Miles/Gallon/Day)</b>             | <b>Total Fuel Consumption</b> |
| Demolition   | 22                               | 0                      | 6.9                        | -                |   | -                             |
| Grading  | 20                               | 0                      | 6.9                        | -                |   | -                             |
| Building Construction  | 66                               | 16                     | 6.9                        | 110              | <b>8.343886151</b>  | 13.23                         |
| Architectural Coating  | 10                               | 0                      | 6.9                        | -                |   | -                             |
| Paving   | 10                               | 0                      | 6.9                        | -                |   | -                             |
|  |                                  |                        |                            |                  |   | <b>13.23</b>                  |
| <b>HAULING TRIPS</b>   |                                  |                        |                            |                  |   |                               |
| <b>Phase</b>   | <b>Phase Length<br/>(# days)</b> | <b># Hauling Trips</b> | <b>Hauling Trip Length</b> | <b>Total VMT</b> | <b>Fuel Consumption Factor<br/>(Miles/Gallon/Day)<sup>1</sup></b> | <b>Total Fuel Consumption</b> |
| Demolition   | 22                               | 0                      | 20                         | -                |   | -                             |
| Grading  | 20                               | 38                     | 20                         | 760              |   |                               |
| Building Construction  | 66                               | 0                      | 20                         | -                | <b>8.343886151</b>  | -                             |
| Architectural Coating  | 10                               | 0                      | 20                         | -                |   | -                             |
| Paving   | 10                               | 0                      | 20                         | -                |   | -                             |
|  |                                  |                        |                            |                  |   | <b>0.00</b>                   |
| <b>TOTAL OFF-SITE MOBILE FUEL (GALLONS) CONSUMED DURING CONSTRUCTION</b> |                                  |                        |                            |                  |   | <b>1,962.38</b>               |

**Menifee Chick-fil-A Project Energy  
Calculations**

**On-Site Construction Fuel Consumption**

| Phase Name   | Offroad Equipment Type       | Amount | Usage Hours | Horse Power | Load Factor | Fuel Consumption Rate<br>(gallons per hour) | Duration (total<br>hours/day) | # days | Total Fuel Consumption<br>(gallons) |
|--|------------------------------|--------|-------------|-------------|-------------|---|-------------------------------|--------|-------------------------------------|
| Demolition   | Concrete/Industrial Saws     | 1      | 8           | 81          | 0.73        | 2.3652                                      | 8                             | 22     | 416.28                              |
| Demolition   | Rubber Tired Dozers          | 1      | 8           | 247         | 0.40        | 3.952                                       | 8                             | 22     | 695.55                              |
| Demolition   | Tractors/Loaders/Backhoes    | 3      | 8           | 97          | 0.37        | 1.4356                                      | 24                            | 22     | 758.00                              |
| Grading  | Graders                      | 1      | 8           | 187         | 0.41        | 3.0668                                      | 8                             | 20     | 490.69                              |
| Grading  | Off-Highway Trucks           | 2      | 8           | 402         | 0.38        | 6.1104                                      | 16                            | 20     | 1,955.33                            |
| Grading  | Pavers                       | 1      | 8           | 130         | 0.42        | 2.184                                       | 8                             | 20     | 349.44                              |
| Grading  | Paving Equipment             | 1      | 8           | 132         | 0.36        | 1.9008                                      | 8                             | 20     | 304.13                              |
| Grading  | Rubber Tired Dozers          | 1      | 8           | 247         | 0.40        | 3.952                                       | 8                             | 20     | 632.32                              |
| Grading  | Surfacing Equipment          | 1      | 8           | 263         | 0.30        | 3.156                                       | 8                             | 20     | 504.96                              |
| Grading  | Tractors/Loaders/Backhoes    | 1      | 8           | 97          | 0.37        | 1.4356                                      | 8                             | 20     | 229.70                              |
| Building Construction  | Cranes                       | 1      | 8           | 231         | 0.29        | 2.6796                                      | 8                             | 66     | 1,414.83                            |
| Building Construction  | Forklifts                    | 2      | 7           | 89          | 0.20        | 0.712                                       | 14                            | 66     | 657.89                              |
| Building Construction  | Generator Sets               | 1      | 8           | 84          | 0.74        | 2.4864                                      | 8                             | 66     | 1,312.82                            |
| Building Construction  | Off-Highway Trucks           | 3      | 8           | 402         | 0.38        | 6.1104                                      | 24                            | 66     | 9,678.87                            |
| Building Construction  | Rough Terrain Forklifts      | 1      | 8           | 100         | 0.40        | 1.6   | 8                             | 66     | 844.80                              |
| Building Construction  | Tractors/Loaders/Backhoes    | 1      | 8           | 97          | 0.67        | 2.5996                                      | 8                             | 66     | 1,372.59                            |
| Building Construction  | Welders                      | 3      | 8           | 46          | 0.45        | 0.828                                       | 24                            | 66     | 1,311.55                            |
| Paving   | Cement and Mortar Mixers     | 1      | 8           | 9           | 0.56        | 0.2016                                      | 8                             | 10     | 16.13                               |
| Paving   | Off-Highway Trucks           | 1      | 8           | 402         | 0.38        | 6.1104                                      | 8                             | 10     | 488.83                              |
| Paving   | Graders                      | 1      | 8           | 187         | 0.41        | 3.0668                                      | 8                             | 10     | 245.34                              |
| Paving   | Other Construction Equipment | 1      | 8           | 172         | 0.42        | 2.8896                                      | 8                             | 10     | 231.17                              |
| Paving   | Pavers                       | 1      | 8           | 172         | 0.42        | 2.8896                                      | 8                             | 10     | 231.17                              |
| Paving   | Paving Equipment             | 1      | 8           | 132         | 0.36        | 1.9008                                      | 8                             | 10     | 152.06                              |
| Paving   | Rollers                      | 2      | 8           | 80          | 0.38        | 1.216                                       | 16                            | 10     | 194.56                              |
| Paving   | Tractors/Loaders/Backhoes    | 1      | 8           | 97          | 0.37        | 1.4356                                      | 8                             | 10     | 114.85                              |
| Architectural Coating  | Air Compressors              | 1      | 6           | 78          | 0.48        | 1.4976                                      | 6                             | 10     | 89.86                               |
| TOTAL ON-SITE FUEL (GALLONS) CONSUMED DURING CONSTRUCTION  |                              |        |             |             |             |   |                               |        | 24,693.70                           |
| TOTAL OFF-SITE MOBILE FUEL (GALLONS) CONSUMED DURING CONSTRUCTION  |                              |        |             |             |             |   |                               |        | 1,962.38                            |
| <b>TOTAL FUEL (GALLONS) CONSUMED DURING CONSTRUCTION</b>   |                              |        |             |             |             |   |                               |        | <b>26,656.08</b>                    |
| Notes:   |                              |        |             |             |             |   |                               |        |                                     |
| Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor   |                              |        |             |             |             |   |                               |        |                                     |
| Where:   |                              |        |             |             |             |   |                               |        |                                     |
| Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr. |                              |        |             |             |             |   |                               |        |                                     |
| Source: Refer to CalEEMod outputs for assumptions used in this analysis.   |                              |        |             |             |             |   |                               |        |                                     |

**Menifee Chick-fil-A Project  
Energy Calculations**

| <b>Vehicle Type</b>      | <b>Percent of Vehicle Trips<sup>1</sup></b> | <b>Daily Trips<sup>2</sup></b> | <b>Annual Vehicle Miles Traveled</b> | <b>Average Fuel Economy (miles per gallon)<sup>3</sup></b> | <b>Total Annual Fuel Consumption (gallons)<sup>4</sup></b> |
|--------------------------|---|--------------------------------|--------------------------------------|--|--|
| Passenger Cars           | 0.53  | 1,210                          | 1,273,770                            | 22   | 57,899   |
| Light/Medium Trucks      | 0.37  | 837                            | 880,502                              | 17.3   | 50,896   |
| Heavy Trucks/Other       | 0.10  | 215                            | 226,690                              | 6.4  | 35,420   |
| <b>TOTAL<sup>6</sup></b> | <b>1.00</b>                                 | <b>2,263</b>                   | <b>2,381,551</b>                     | <b>--</b>  | <b>144,215</b>   |

Notes:

1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips Distribution based on ITE manual.
3. Average fuel economy derived from the Department of Transportation.
4. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
5. Values may be slightly off due to rounding.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

|                          |             |
|--------------------------|-------------|
| County On-Road (Gallons) | 752,896,971 |
|--------------------------|-------------|