

Emissions Summary

DAILY EMISSIONS SUMMARY

| Existing (2018) | ROG | NOx | CO | SOx | PM10 | PM2.5 |
|-----------------|-------|-------|--------|-----|------|-------|
| Mobile | 289 | 3,161 | 9,856 | 29 | 223 | 107 |
| Energy | 82 | 739 | 559 | 4 | 57 | 57 |
| Area | 2,521 | 53 | 4,599 | 0 | 25 | 25 |
| Total | 2,892 | 3,953 | 15,014 | 34 | 305 | 189 |

| Adopted General Plan 2040 | ROG | NOx | CO | SOx | PM10 | PM2.5 |
|---------------------------|-------|-------|--------|-----|------|-------|
| Mobile | 67 | 877 | 5,096 | 31 | 254 | 91 |
| Energy | 121 | 1,082 | 796 | 7 | 84 | 84 |
| Area | 4,969 | 73 | 6,365 | 0 | 35 | 35 |
| Total | 5,157 | 2,032 | 12,257 | 38 | 373 | 210 |

| GPU 2040 | ROG | NOx | CO | SOx | PM10 | PM2.5 |
|----------|-------|-------|--------|-----|------|-------|
| Mobile | 67 | 869 | 5,049 | 31 | 252 | 90 |
| Energy | 117 | 1,050 | 784 | 6 | 81 | 81 |
| Area | 4,276 | 73 | 6,363 | 0 | 35 | 35 |
| Total | 4,460 | 1,993 | 12,196 | 38 | 368 | 207 |

| Change Over Existing (2018) | ROG | NOx | CO | SOx | PM10 | PM2.5 |
|-----------------------------|-------|--------|--------|-----|------|-------|
| Mobile | -223 | -2,292 | -4,807 | 2 | 29 | -17 |
| Energy | 35 | 312 | 225 | 2 | 24 | 24 |
| Area | 1,755 | 20 | 1,764 | 0 | 10 | 10 |
| Total | 1,567 | -1,960 | -2,818 | 4 | 64 | 18 |

| Change Over Adopted GP (2040) | ROG | NOx | CO | SOx | PM10 | PM2.5 |
|-------------------------------|------|-----|-----|-----|------|-------|
| Mobile | -1 | -8 | -47 | 0 | -2 | -1 |
| Energy | -4 | -31 | -11 | 0 | -3 | -3 |
| Area | -693 | 0 | -2 | 0 | 0 | 0 |
| Total | -697 | -39 | -61 | 0 | -5 | -3 |

Land Use

| | Planning Area | County-wide | Local share of County |
|------------------------------|---------------|-------------|--------------------------|
| 2018 Population | 207,946 | 2,415,954 | 8.61% |
| 2040 BAU Population | 256,600 | 3,167,584 | 8.10% |
| 2040 General Plan Population | 252,179 | 3,167,584 | 7.96% |

Growth Rates Based on Buildout:

| | 2018 | 2040 Business As Usual | | 2040 General Plan Update | | |
|-------------------------------|------------|------------------------|--------|--------------------------|--------|-------------|
| | | Value | Rate | Value | Rate | |
| Residential, population | 207,946.00 | 256,600.00 | 0.96% | 252,179.00 | 0.88% | (4,421.00) |
| Residential, housing units | 55,328.00 | 77,380.00 | 1.54% | 77,380.00 | 1.54% | - |
| <i>Single-Family</i> | 45,922.00 | 64,225.00 | 1.54% | 52,130.00 | 0.58% | (12,095.00) |
| <i>Multi-Family</i> | 9,406.00 | 13,155.00 | 1.54% | 25,250.00 | 4.59% | 12,095.00 |
| Commercial, 1000 Sq Ft | 6,990.89 | 13,228.97 | 2.94% | 11,418.17 | 2.26% | (1,810.79) |
| Industrial, 1000 Sq Ft | 5,824.15 | 71,645.20 | 12.08% | 51,759.47 | 10.44% | (19,885.73) |
| Public facilities, 1000 Sq Ft | 5,009.40 | 5,009.40 | 0.00% | 5,009.40 | 0.00% | - |
| Agricultural, acreage | 189.40 | 189.40 | 0.00% | 189.40 | 0.00% | - |
| Parks, acreage | 454.18 | 818.47 | 2.71% | 818.47 | 2.71% | - |
| Jobs (All) | 44,331.00 | 83,453.00 | 2.92% | 83,453.00 | 2.92% | - |
| Service Population | 252,277.00 | 340,053.00 | 1.37% | 335,632.00 | 1.31% | (4,421.00) |
| | | | | | | |
| Commercial + Public fac | 12,000.29 | 18,238.37 | | 16,427.57 | | |

Vehicle Emissions

VEHICLE EMISSIONS

| Year | VMT | ROG | NO _x | CO | SO _x | PM10 | PM2.5 |
|----------------------------|-----------|--------|-----------------|----------|-----------------|--------|--------|
| Existing (2018) | 3,144,986 | 289.39 | 3,160.81 | 9,856.27 | 29.34 | 222.56 | 107.25 |
| 2040 Adopted General Plan | 4,566,084 | 67.31 | 877.08 | 5,095.83 | 31.18 | 254.05 | 91.29 |
| 2040 Proposed General Plan | 4,524,038 | 66.69 | 869.00 | 5,048.90 | 30.89 | 251.71 | 90.45 |
| | -42,046 | | | | | | |

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2018, 2040

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | Population | Total VMT | CVMT | EVMT | Trips | Energy Consumption |
|----------------|---------------|--|------------|-----------|----------------|------------|---------------|---------------|------------|--------------|--------------------|
| Riverside (SC) | 2018 | All Other Buses | Aggregate | Aggregate | Diesel | 200.14 | 10,314.12 | 10,314.12 | 0.00 | 1,781.23 | 0.00 |
| Riverside (SC) | 2018 | All Other Buses | Aggregate | Aggregate | Natural Gas | 15.78 | 1,099.93 | 1,099.93 | 0.00 | 140.41 | 0.00 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Gasoline | 470,353.86 | 20,084,315.37 | 20,084,315.37 | 0.00 | 2,218,531.63 | 0.00 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Diesel | 1,705.25 | 67,716.52 | 67,716.52 | 0.00 | 7,746.23 | 0.00 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Electricity | 2,772.16 | 100,813.29 | 0.00 | 100,813.29 | 14,029.19 | 38,922.25 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Plug-in Hybrid | 5,988.52 | 310,675.70 | 168,346.35 | 142,329.35 | 29,433.56 | 42,887.71 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Gasoline | 47,017.95 | 1,711,958.78 | 1,711,958.78 | 0.00 | 207,311.40 | 0.00 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Diesel | 50.21 | 1,059.90 | 1,059.90 | 0.00 | 164.65 | 0.00 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Electricity | 19.23 | 521.58 | 0.00 | 521.58 | 88.44 | 201.37 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Plug-in Hybrid | 0.50 | 27.31 | 14.80 | 12.51 | 2.47 | 3.78 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Gasoline | 166,305.45 | 6,870,003.87 | 6,870,003.87 | 0.00 | 777,312.21 | 0.00 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Diesel | 465.26 | 22,753.11 | 22,753.11 | 0.00 | 2,279.97 | 0.00 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Electricity | 9.22 | 249.19 | 0.00 | 249.19 | 43.87 | 96.21 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Plug-in Hybrid | 61.00 | 3,330.43 | 1,804.66 | 1,525.76 | 299.82 | 460.83 |
| Riverside (SC) | 2018 | LHD1 | Aggregate | Aggregate | Gasoline | 18,438.17 | 642,791.10 | 642,791.10 | 0.00 | 274,701.30 | 0.00 |
| Riverside (SC) | 2018 | LHD1 | Aggregate | Aggregate | Diesel | 16,110.23 | 606,557.42 | 606,557.42 | 0.00 | 202,646.40 | 0.00 |
| Riverside (SC) | 2018 | LHD1 | Aggregate | Aggregate | Gasoline | 2,526.47 | 87,899.61 | 87,899.61 | 0.00 | 37,640.56 | 0.00 |
| Riverside (SC) | 2018 | LHD2 | Aggregate | Aggregate | Diesel | 6,354.44 | 247,662.20 | 247,662.20 | 0.00 | 79,930.86 | 0.00 |
| Riverside (SC) | 2018 | LHD2 | Aggregate | Aggregate | Gasoline | 25,195.28 | 157,184.17 | 157,184.17 | 0.00 | 50,398.57 | 0.00 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Gasoline | 162,220.69 | 6,339,248.41 | 6,339,248.41 | 0.00 | 748,944.77 | 0.00 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Diesel | 1,895.73 | 86,229.36 | 86,229.36 | 0.00 | 9,260.08 | 0.00 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Electricity | 5.65 | 107.45 | 0.00 | 107.45 | 24.14 | 41.49 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Plug-in Hybrid | 377.43 | 19,675.40 | 10,661.54 | 9,013.86 | 1,855.06 | 2,722.45 |
| Riverside (SC) | 2018 | MH | Aggregate | Aggregate | Gasoline | 6,345.40 | 56,727.28 | 56,727.28 | 0.00 | 634.79 | 0.00 |
| Riverside (SC) | 2018 | MH | Aggregate | Aggregate | Diesel | 2,161.43 | 20,354.20 | 20,354.20 | 0.00 | 216.14 | 0.00 |
| Riverside (SC) | 2018 | Motor Coach | Aggregate | Aggregate | Diesel | 45.24 | 5,078.84 | 5,078.84 | 0.00 | 1,039.71 | 0.00 |
| Riverside (SC) | 2018 | OBUS | Aggregate | Aggregate | Gasoline | 454.18 | 17,106.31 | 17,106.31 | 0.00 | 9,087.30 | 0.00 |
| Riverside (SC) | 2018 | PTO | Aggregate | Aggregate | Diesel | 5.00 | 46,051.66 | 46,051.66 | 0.00 | 0.00 | 0.00 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Gasoline | 470.06 | 17,616.15 | 17,616.15 | 0.00 | 1,889.24 | 0.00 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Diesel | 544.86 | 12,006.78 | 12,006.78 | 0.00 | 7,889.54 | 0.00 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Natural Gas | 355.80 | 9,057.23 | 9,057.23 | 0.00 | 5,151.97 | 0.00 |
| Riverside (SC) | 2018 | TG CAIRP Class 4 | Aggregate | Aggregate | Diesel | 3.88 | 267.20 | 267.20 | 0.00 | 89.27 | 0.00 |
| Riverside (SC) | 2018 | TG CAIRP Class 5 | Aggregate | Aggregate | Diesel | 5.30 | 305.54 | 305.54 | 0.00 | 121.71 | 0.00 |
| Riverside (SC) | 2018 | TG CAIRP Class 6 | Aggregate | Aggregate | Diesel | 13.44 | 957.79 | 957.79 | 0.00 | 308.86 | 0.00 |
| Riverside (SC) | 2018 | TG CAIRP Class 7 | Aggregate | Aggregate | Diesel | 32.76 | 6,001.21 | 6,001.21 | 0.00 | 752.77 | 0.00 |
| Riverside (SC) | 2018 | TG CAIRP Class 8 | Aggregate | Aggregate | Natural Gas | 0.03 | 6.53 | 6.53 | 0.00 | 0.73 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Delivery Class 4 | Aggregate | Aggregate | Diesel | 467.08 | 13,767.04 | 13,767.04 | 0.00 | 6,663.22 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Delivery Class 5 | Aggregate | Aggregate | Natural Gas | 0.50 | 16.73 | 16.73 | 0.00 | 7.19 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Delivery Class 6 | Aggregate | Aggregate | Diesel | 399.83 | 13,169.20 | 13,169.20 | 0.00 | 5,705.56 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Delivery Class 7 | Aggregate | Aggregate | Natural Gas | 0.73 | 24.71 | 24.71 | 0.00 | 10.47 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Delivery Class 8 | Aggregate | Aggregate | Diesel | 1,284.72 | 38,015.73 | 38,015.73 | 0.00 | 18,332.99 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Delivery Class 9 | Aggregate | Aggregate | Natural Gas | 5.71 | 120.73 | 120.73 | 0.00 | 52.85 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Delivery Class 10 | Aggregate | Aggregate | Diesel | 218.10 | 8,765.96 | 8,765.96 | 0.00 | 3,112.35 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Delivery Class 11 | Aggregate | Aggregate | Natural Gas | 2.25 | 97.56 | 97.56 | 0.00 | 32.13 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Other Class 4 | Aggregate | Aggregate | Diesel | 1,678.09 | 58,147.84 | 58,147.84 | 0.00 | 19,398.69 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Other Class 5 | Aggregate | Aggregate | Natural Gas | 1.93 | 83.78 | 83.78 | 0.00 | 22.32 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Other Class 6 | Aggregate | Aggregate | Diesel | 3,061.16 | 146,871.92 | 146,871.92 | 0.00 | 39,870.66 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Other Class 7 | Aggregate | Aggregate | Natural Gas | 6.08 | 310.88 | 310.88 | 0.00 | 70.25 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Other Class 8 | Aggregate | Aggregate | Diesel | 2,514.27 | 102,691.91 | 102,691.91 | 0.00 | 29,064.91 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Other Class 9 | Aggregate | Aggregate | Natural Gas | 5.13 | 249.26 | 249.26 | 0.00 | 59.34 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Other Class 10 | Aggregate | Aggregate | Diesel | 1,328.29 | 54,005.72 | 54,005.72 | 0.00 | 18,355.02 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Other Class 11 | Aggregate | Aggregate | Natural Gas | 15.68 | 1,011.45 | 1,011.45 | 0.00 | 181.27 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Tractor Class 6 | Aggregate | Aggregate | Diesel | 20.49 | 770.98 | 770.98 | 0.00 | 236.89 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Tractor Class 7 | Aggregate | Aggregate | Natural Gas | 0.06 | 3.32 | 3.32 | 0.00 | 0.67 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Tractor Class 8 | Aggregate | Aggregate | Diesel | 478.94 | 23,721.56 | 23,721.56 | 0.00 | 5,536.51 | 0.00 |
| Riverside (SC) | 2018 | TG Instate Tractor Class 9 | Aggregate | Aggregate | Natural Gas | 3.18 | 209.24 | 209.24 | 0.00 | 36.71 | 0.00 |
| Riverside (SC) | 2018 | TG OOS Class 4 | Aggregate | Aggregate | Diesel | 2.24 | 154.13 | 154.13 | 0.00 | 51.50 | 0.00 |
| Riverside (SC) | 2018 | TG OOS Class 5 | Aggregate | Aggregate | Diesel | 3.06 | 211.44 | 211.44 | 0.00 | 70.21 | 0.00 |
| Riverside (SC) | 2018 | TG OOS Class 6 | Aggregate | Aggregate | Diesel | 7.75 | 552.51 | 552.51 | 0.00 | 178.17 | 0.00 |
| Riverside (SC) | 2018 | TG OOS Class 7 | Aggregate | Aggregate | Diesel | 18.91 | 4,017.42 | 4,017.42 | 0.00 | 434.66 | 0.00 |
| Riverside (SC) | 2018 | TG Public Class 4 | Aggregate | Aggregate | Diesel | 89.09 | 2,689.89 | 2,689.89 | 0.00 | 457.02 | 0.00 |
| Riverside (SC) | 2018 | TG Public Class 5 | Aggregate | Aggregate | Natural Gas | 1.08 | 43.12 | 43.12 | 0.00 | 5.52 | 0.00 |
| Riverside (SC) | 2018 | TG Public Class 6 | Aggregate | Aggregate | Diesel | 118.87 | 4,283.38 | 4,283.38 | 0.00 | 609.83 | 0.00 |
| Riverside (SC) | 2018 | TG Public Class 7 | Aggregate | Aggregate | Natural Gas | 17.29 | 721.73 | 721.73 | 0.00 | 88.69 | 0.00 |
| Riverside (SC) | 2018 | TG Public Class 8 | Aggregate | Aggregate | Diesel | 201.01 | 6,237.60 | 6,237.60 | 0.00 | 1,031.18 | 0.00 |
| Riverside (SC) | 2018 | TG Public Class 9 | Aggregate | Aggregate | Natural Gas | 5.35 | 228.22 | 228.22 | 0.00 | 27.32 | 0.00 |
| Riverside (SC) | 2018 | TG Public Class 10 | Aggregate | Aggregate | Diesel | 319.91 | 13,108.03 | 13,108.03 | 0.00 | 1,641.15 | 0.00 |
| Riverside (SC) | 2018 | TG Public Class 11 | Aggregate | Aggregate | Natural Gas | 9.13 | 597.41 | 597.41 | 0.00 | 46.83 | 0.00 |
| Riverside (SC) | 2018 | TG Utility Class 5 | Aggregate | Aggregate | Diesel | 172.67 | 7,024.48 | 7,024.48 | 0.00 | 2,210.16 | 0.00 |
| Riverside (SC) | 2018 | TG Utility Class 6 | Aggregate | Aggregate | Natural Gas | 0.78 | 32.38 | 32.38 | 0.00 | 10.03 | 0.00 |
| Riverside (SC) | 2018 | TG Utility Class 7 | Aggregate | Aggregate | Diesel | 35.94 | 1,319.55 | 1,319.55 | 0.00 | 460.00 | 0.00 |
| Riverside (SC) | 2018 | TG Utility Class 8 | Aggregate | Aggregate | Natural Gas | 0.36 | 14.05 | 14.05 | 0.00 | 4.65 | 0.00 |
| Riverside (SC) | 2018 | TG Utility Class 9 | Aggregate | Aggregate | Diesel | 42.93 | 1,830.34 | 1,830.34 | 0.00 | 549.49 | 0.00 |
| Riverside (SC) | 2018 | TG Utility Class 10 | Aggregate | Aggregate | Natural Gas | 0.54 | 25.15 | 25.15 | 0.00 | 6.86 | 0.00 |
| Riverside (SC) | 2018 | TGIS | Aggregate | Aggregate | Gasoline | 1,351.55 | 49,576.94 | 49,576.94 | 0.00 | 27,041.91 | 0.00 |
| Riverside (SC) | 2018 | T7 CAIRP Class 8 | Aggregate | Aggregate | Diesel | 1,509.35 | 330,811.89 | 330,811.89 | 0.00 | 34,684.86 | 0.00 |
| Riverside (SC) | 2018 | T7 CAIRP Class 9 | Aggregate | Aggregate | Natural Gas | 5.33 | 1,294.76 | 1,294.76 | 0.00 | 122.54 | 0.00 |
| Riverside (SC) | 2018 | T7 NNOOS Class 8 | Aggregate | Aggregate | Diesel | 1,465.98 | 393,278.97 | 393,278.97 | 0.00 | 33,688.14 | 0.00 |
| Riverside (SC) | 2018 | T7 NNOOS Class 9 | Aggregate | Aggregate | Diesel | 566.18 | 142,800.00 | 142,800.00 | 0.00 | 13,010.78 | 0.00 |
| Riverside (SC) | 2018 | T7 POLA Class 8 | Aggregate | Aggregate | Diesel | 1,747.02 | 225,877.57 | 225,877.57 | 0.00 | 28,581.18 | 0.00 |
| Riverside (SC) | 2018 | T7 POLA Class 9 | Aggregate | Aggregate | Natural Gas | 87.16 | 11,244.89 | 11,244.89 | 0.00 | 1,426.01 | 0.00 |
| Riverside (SC) | 2018 | T7 Public Class 8 | Aggregate | Aggregate | Diesel | 720.40 | 29,134.54 | 29,134.54 | 0.00 | 3,695.67 | 0.00 |
| Riverside (SC) | 2018 | T7 Public Class 9 | Aggregate | Aggregate | Natural Gas | 82.10 | 4,561.23 | 4,561.23 | 0.00 | 421.17 | 0.00 |
| Riverside (SC) | 2018 | T7 Single Concrete/Transit Mix Class 8 | Aggregate | Aggregate | Diesel | 1,253.32 | 87,956.11 | 87,956.11 | 0.00 | 11,808.32 | 0.00 |
| Riverside (SC) | 2018 | T7 Single Concrete/Transit Mix Class 9 | Aggregate | Aggregate | Natural Gas | 62.20 | 5,202.93 | 5,202.93 | 0.00 | 585.97 | 0.00 |
| Riverside (SC) | 2018 | T7 Single Dump Class 8 | Aggregate | Aggregate | Diesel | 1,335.93 | 68,425.78 | 68,425.78 | 0.00 | 12,584.49 | 0.00 |
| Riverside (SC) | 2018 | T7 Single Dump Class 9 | Aggregate | Aggregate | Natural Gas | 56.29 | 4,181.38 | 4,181.38 | 0.00 | 530.26 | 0.00 |
| Riverside (SC) | 2018 | T7 Single Other Class 8 | Aggregate | Aggregate | Diesel | 1,179.89 | 62,687.59 | 62,687.59 | 0.00 | 11,112.66 | 0.00 |
| Riverside (SC) | 2018 | T7 Single Other Class 9 | Aggregate | Aggregate | Natural Gas | 46.14 | 3,471.60 | 3,471.60 | 0.00 | 434.61 | 0.00 |
| Riverside (SC) | 2018 | T7 SWCV Class 8 | | | | | | | | | |

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Units: miles/day for CVMT and EMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | ROG_RUNEX | ROG_GRAMS | ROG_LBS | NOx_RUNEX | NOx_GRAMS | NOx_LBS | CO_RUNEX | CO_GRAMS | CO_LBS | SOx_RUNEX | SOx_GRAMS | SOx_LBS |
|----------------|---------------|-----------------------------|------------|-----------|----------------|-----------|---------------|-----------|-----------|-----------------|-------------|----------|------------------|--------------|-----------|--------------|-----------|
| Riverside (SC) | 2018 | All Other Buses | Aggregate | Aggregate | Diesel | 0.57095 | 5,888.87179 | 12.98275 | 8.80810 | 90,847.88119 | 200.28516 | 1.28107 | 16,307.38136 | 35.95158 | 0.01042 | 103.35616 | 0.22820 |
| Riverside (SC) | 2018 | All Other Buses | Aggregate | Aggregate | Natural Gas | 0.00538 | 5.91219 | 0.01303 | 0.14228 | 156.49685 | 0.34502 | 2.28036 | 2.508.22509 | 5.52969 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Gasoline | 0.01806 | 362,753.13434 | 799.73442 | 0.07397 | 1,485,669.86777 | 3,275.34407 | 1.09396 | 21,971.362.06695 | 48,438.60136 | 0.00003 | 60,908.14866 | 134.27959 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Gasoline | 0.03603 | 2,439.82238 | 5.37889 | 0.33460 | 22,658.09264 | 49.95258 | 0.37662 | 25,503.38278 | 56.22538 | 0.00233 | 157.53887 | 0.34731 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Electricity | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Plug-in Hybrid | 0.00143 | 444.62407 | 0.98923 | 0.00225 | 1,010.51196 | 2.22780 | 0.23793 | 73,919.20767 | 162.96409 | 0.00146 | 453.82274 | 1.00000 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Gasoline | 0.07077 | 121,162.52243 | 267.11792 | 0.29448 | 504,131.24437 | 1,111.42005 | 2.97647 | 5,095.595.01000 | 11,233.87319 | 0.00360 | 6,168.51141 | 13.59925 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Diesel | 0.29538 | 313.07716 | 0.69022 | 1.58195 | 1,676.71131 | 3.69652 | 1.82673 | 1,596.15502 | 4.26849 | 0.00413 | 4.37411 | 0.00964 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Plug-in Hybrid | 0.00143 | 0.03909 | 0.00000 | 0.00225 | 0.08884 | 0.00020 | 0.23793 | 6.19845 | 0.01433 | 0.00146 | 0.00290 | 0.00009 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Gasoline | 0.02811 | 193,145.31018 | 425.81287 | 0.18225 | 1,135,241.38177 | 2,502.78087 | 1.12202 | 10,456,300.54881 | 23,052.21553 | 0.00390 | 26,809.45191 | 59.10477 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Diesel | 0.02538 | 577.38628 | 1.27292 | 0.11383 | 2,590.03357 | 5.71005 | 0.16462 | 3,745.67359 | 8.25780 | 0.00317 | 72.14857 | 0.15906 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Plug-in Hybrid | 0.00143 | 1.76634 | 0.01051 | 0.00225 | 10.83263 | 0.02388 | 0.23793 | 792.40966 | 1.74897 | 0.00146 | 4.86538 | 0.01073 |
| Riverside (SC) | 2018 | LHD1 | Aggregate | Aggregate | Gasoline | 0.04370 | 28,087.80778 | 61.92907 | 0.29740 | 184,736.02508 | 407.27355 | 1.44474 | 928,664.17425 | 2,047.35572 | 0.00705 | 4,529.84410 | 9.98660 |
| Riverside (SC) | 2018 | LHD1 | Aggregate | Aggregate | Diesel | 0.14869 | 90,190.06961 | 198.83523 | 2.95774 | 1,704,041.95945 | 3,955.18871 | 0.51936 | 31,024.37695 | 69,451,043 | 0.00146 | 2,849.03062 | 6.28104 |
| Riverside (SC) | 2018 | LHD2 | Aggregate | Aggregate | Gasoline | 0.02920 | 2,566.99986 | 5.65927 | 0.23994 | 21,090.27758 | 46.49614 | 1.03554 | 92,606.17112 | 204.16183 | 0.00778 | 684.24758 | 1.50851 |
| Riverside (SC) | 2018 | LHD2 | Aggregate | Aggregate | Diesel | 0.12530 | 31,032.90907 | 68.41591 | 2.20253 | 545,483.15153 | 1,202.58548 | 0.37710 | 93,394.29358 | 205.89934 | 0.00573 | 1,418.76672 | 3.12785 |
| Riverside (SC) | 2018 | LHD2 | Aggregate | Aggregate | Gasoline | 1.37674 | 216,402.02566 | 477.08520 | 0.68196 | 107,193.85354 | 236.32241 | 17.22236 | 2,707,082.21338 | 5,968.69978 | 0.00192 | 302.21464 | 0.66039 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Gasoline | 0.04084 | 298,888.64873 | 570.75224 | 0.24036 | 1,490,289.65824 | 3,219.20924 | 1.85149 | 11,737,064.32018 | 25,875.81862 | 0.00472 | 29,966.92232 | 65.93287 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Diesel | 0.01573 | 1,356.55139 | 2.99069 | 0.11898 | 10,259.81195 | 22.61903 | 0.21829 | 18,823.16454 | 41.49801 | 0.00419 | 360.96520 | 0.79580 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Electricity | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Plug-in Hybrid | 0.00143 | 28.15848 | 0.06208 | 0.00225 | 63.99671 | 0.14109 | 0.23793 | 1,681.37394 | 10.32068 | 0.00146 | 28.74357 | 0.06337 |
| Riverside (SC) | 2018 | MH | Aggregate | Aggregate | Gasoline | 0.05752 | 5,525.79508 | 12.18251 | 0.53272 | 30,219.64735 | 66.62997 | 3.27598 | 185,837.32952 | 409.70151 | 0.01742 | 988.11192 | 2.17842 |
| Riverside (SC) | 2018 | MH | Aggregate | Aggregate | Diesel | 0.07560 | 1,538.76734 | 3.39240 | 0.65949 | 94,840.19512 | 209.08701 | 0.35147 | 7,153.81094 | 15.71147 | 0.00926 | 188.57156 | 0.41573 |
| Riverside (SC) | 2018 | Motor Coach | Aggregate | Aggregate | Diesel | 0.21657 | 1,099.93992 | 2.42495 | 4.98174 | 25,301.48508 | 55.78027 | 0.81197 | 4,123.84308 | 9.90153 | 0.01612 | 81.58507 | 0.18047 |
| Riverside (SC) | 2018 | OBUS | Aggregate | Aggregate | Gasoline | 0.07877 | 1,347.42062 | 2.97056 | 0.69082 | 11,817.35832 | 26.05284 | 2.16020 | 36,952.99440 | 81.46747 | 0.01707 | 291.93694 | 0.64361 |
| Riverside (SC) | 2018 | PTO | Aggregate | Aggregate | Diesel | 0.38578 | 17,765.61174 | 39.16650 | 6.74841 | 310,775.40278 | 685.14317 | 1.33121 | 61,304.50616 | 135.15341 | 0.02073 | 98.48183 | 2.10567 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Gasoline | 0.24911 | 4,388.35412 | 8.67463 | 0.61818 | 10,800.01969 | 24.00840 | 0.57365 | 94,763.48113 | 208.01758 | 0.00181 | 161.62921 | 0.36638 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Diesel | 0.16533 | 1,985.05541 | 4.37630 | 9.28071 | 111,431.54022 | 245.66469 | 0.38979 | 4,680.15314 | 10.31798 | 0.01221 | 146.63634 | 0.32328 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Natural Gas | 0.07470 | 676.55685 | 1.49155 | 1.06335 | 9,929.87080 | 21.89164 | 18.83855 | 170,624.97479 | 376.16399 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | T6 CAIRP Class 4 | Aggregate | Aggregate | Diesel | 0.09820 | 26.23944 | 0.05785 | 2.61690 | 699.14343 | 1.54135 | 0.34491 | 92.15930 | 0.20318 | 0.01046 | 2.79518 | 0.00616 |
| Riverside (SC) | 2018 | T6 CAIRP Class 5 | Aggregate | Aggregate | Diesel | 0.07752 | 28.41267 | 0.06264 | 2.03959 | 747.73261 | 1.64847 | 0.24967 | 108.12548 | 0.23838 | 0.01046 | 3.83286 | 0.00846 |
| Riverside (SC) | 2018 | T6 CAIRP Class 6 | Aggregate | Aggregate | Diesel | 0.10746 | 102.91947 | 0.22690 | 2.68622 | 2,572.83435 | 5.67213 | 0.40624 | 389.09349 | 0.85781 | 0.01046 | 9.83969 | 0.02169 |
| Riverside (SC) | 2018 | T6 CAIRP Class 7 | Aggregate | Aggregate | Diesel | 0.09835 | 590.22445 | 1.30122 | 2.65530 | 15,934.99256 | 35.13067 | 0.35024 | 2,101.88747 | 4.63387 | 0.00978 | 58.70399 | 0.12942 |
| Riverside (SC) | 2018 | T6 CAIRP Class 8 | Aggregate | Aggregate | Natural Gas | 0.00502 | 0.03281 | 0.00007 | 0.14840 | 0.96920 | 0.00214 | 2.36239 | 15.42935 | 0.03042 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Diesel | 0.29080 | 4,003.44979 | 8.82610 | 6.37224 | 87,726.87967 | 193.40482 | 1.03946 | 14,310.30147 | 31.84884 | 0.01022 | 140.63317 | 0.31004 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Natural Gas | 0.00522 | 0.00856 | 0.00002 | 0.15626 | 2.61474 | 0.00577 | 2.40807 | 40.29403 | 0.08883 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Diesel | 0.14976 | 1,972.23038 | 4.34803 | 3.28423 | 43,250.64396 | 95.35143 | 0.55988 | 7,361.29060 | 16.22888 | 0.01036 | 136.38733 | 0.30068 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Natural Gas | 0.00532 | 0.13150 | 0.00029 | 0.15626 | 3.86090 | 0.00851 | 2.40807 | 59.49767 | 0.13117 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 8 | Aggregate | Aggregate | Diesel | 0.27515 | 10,459.91565 | 23.06019 | 6.19233 | 235,405.86272 | 518.98151 | 0.92127 | 35,022.90778 | 77.21236 | 0.01007 | 382.95136 | 0.84426 |
| Riverside (SC) | 2018 | T6 Instate Other Class 4 | Aggregate | Aggregate | Natural Gas | 0.19848 | 0.61257 | 0.00142 | 0.15626 | 18.86293 | 0.04159 | 2.40807 | 290.73010 | 0.64095 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | T6 Instate Other Class 5 | Aggregate | Aggregate | Diesel | 0.22030 | 1,931.12240 | 4.25740 | 6.25234 | 54,815.68879 | 120.84801 | 0.67773 | 5,940.98526 | 13.09764 | 0.01008 | 88.39676 | 0.19488 |
| Riverside (SC) | 2018 | T6 Instate Other Class 6 | Aggregate | Aggregate | Natural Gas | 0.00585 | 0.57076 | 0.00126 | 0.12867 | 12.55313 | 0.02767 | 2.17982 | 212.65933 | 0.46883 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | T6 Instate Other Class 7 | Aggregate | Aggregate | Diesel | 0.28147 | 16,366.86724 | 36.08240 | 6.10012 | 354,708.51777 | 781.99972 | 1.00438 | 58,402.53864 | 128.75566 | 0.01025 | 598.84991 | 1.31363 |
| Riverside (SC) | 2018 | T6 Instate Other Class 8 | Aggregate | Aggregate | Natural Gas | 0.00528 | 0.44250 | 0.00008 | 0.15530 | 13.01143 | 0.02869 | 2.40246 | 201.28315 | 0.44375 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | T6 Instate Other Class 9 | Aggregate | Aggregate | Diesel | 0.12975 | 17,734.80305 | 39.08588 | 2.62572 | 385,614.17159 | 850.30966 | 0.47663 | 60,563.07568 | 132.99016 | 0.01029 | 1,529.41161 | 3.36413 |
| Riverside (SC) | 2018 | T6 Instate Other Class 10 | Aggregate | Aggregate | Natural Gas | 0.00528 | 1.64229 | 0.00362 | 0.15530 | 48.28024 | 0.10614 | 2.40246 | 74.688145 | 1.64659 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | T6 Instate Other Class 11 | Aggregate | Aggregate | Diesel | 0.21773 | 22,358.64887 | 49.29242 | 4.66814 | 479,380.15557 | 1,056.85320 | 0.78825 | 80,946.57819 | 178.14580 | 0.01021 | 1,048.98911 | 2.31245 |
| Riverside (SC) | 2018 | T6 Instate Other Class 12 | Aggregate | Aggregate | Natural Gas | 0.00528 | 1.31677 | 0.00290 | 0.15530 | 38.71065 | 0.08534 | 2.40246 | 598.84261 | 1.32022 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2018 | T6 Instate Other Class 13 | Aggregate | Aggregate | Diesel | 0.19848 | 10,730.65156 | 23.65576 | 4.94520 | 267,069.24254 | 588.75757 | 0.61196 | 33,049.41807 | 72.86155 | 0.01030 | 556.08834 | 1.22592 |
| Riverside (SC) | 2018 | T6 Instate Tractor Class 4 | Aggregate | Aggregate | Diesel | 0.08613 | | | | | | | | | | | |

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2018, 2040

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | PM10_RUNEX | PM10_PMTW | PM10_PMBW | PM10_GRAMS | PM10_LBS |
|----------------|---------------|--|------------|-----------|----------------|------------|-----------|-----------|---------------|-----------|
| Riverside (SC) | 2018 | All Other Buses | Aggregate | Aggregate | Diesel | 0.35315 | 0.01200 | 0.04204 | 4,199,88055 | 9.25916 |
| Riverside (SC) | 2018 | All Other Buses | Aggregate | Aggregate | Natural Gas | 0.00042 | 0.01200 | 0.04204 | 59,90044 | 0.13206 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Gasoline | 0.00144 | 0.00800 | 0.00690 | 328,133.69061 | 723.41155 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Diesel | 0.02363 | 0.00800 | 0.00689 | 2,608.26850 | 5.75025 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00436 | 1,246.14780 | 2.74729 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Plug-in Hybrid | 0.00088 | 0.00800 | 0.00372 | 3,915.70204 | 8.63265 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Gasoline | 0.00308 | 0.00800 | 0.00834 | 33,236.57833 | 73.27417 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Diesel | 0.22848 | 0.00800 | 0.00946 | 280.66906 | 0.57468 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00440 | 6.46952 | 0.01426 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Plug-in Hybrid | 0.00106 | 0.00800 | 0.00371 | 0.34899 | 0.00077 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Gasoline | 0.00159 | 0.00800 | 0.00801 | 120,944.64190 | 266.63751 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Diesel | 0.01421 | 0.00800 | 0.00737 | 673.10650 | 1.48395 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00440 | 3.09003 | 0.00681 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Plug-in Hybrid | 0.00105 | 0.00800 | 0.00371 | 42.51642 | 0.09373 |
| Riverside (SC) | 2018 | LHD1 | Aggregate | Aggregate | Gasoline | 0.00128 | 0.00800 | 0.07800 | 56,105.07484 | 123.69962 |
| Riverside (SC) | 2018 | LHD1 | Aggregate | Aggregate | Diesel | 0.03796 | 0.01200 | 0.07800 | 77,614.86233 | 171.11162 |
| Riverside (SC) | 2018 | LHD2 | Aggregate | Aggregate | Gasoline | 0.00104 | 0.00800 | 0.09100 | 8,793.29692 | 19.38592 |
| Riverside (SC) | 2018 | LHD2 | Aggregate | Aggregate | Diesel | 0.03208 | 0.01200 | 0.09100 | 33,454.51521 | 73.75464 |
| Riverside (SC) | 2018 | MCY | Aggregate | Aggregate | Gasoline | 0.00176 | 0.00400 | 0.01200 | 2,791.35983 | 6.15390 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Gasoline | 0.00162 | 0.00800 | 0.00827 | 113,414.96816 | 250.03542 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Diesel | 0.00863 | 0.00800 | 0.00766 | 2,094.36762 | 4.61729 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00445 | 1.33796 | 0.00295 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Plug-in Hybrid | 0.00107 | 0.00800 | 0.00371 | 251.39336 | 0.55423 |
| Riverside (SC) | 2018 | MH | Aggregate | Aggregate | Gasoline | 0.00152 | 0.01200 | 0.04217 | 3,159.42740 | 6.96535 |
| Riverside (SC) | 2018 | MH | Aggregate | Aggregate | Diesel | 0.16071 | 0.01600 | 0.04211 | 4,453.81224 | 9.81898 |
| Riverside (SC) | 2018 | Motor Coach | Aggregate | Aggregate | Diesel | 0.12991 | 0.01200 | 0.08373 | 1,145.99352 | 2.52649 |
| Riverside (SC) | 2018 | OBUS | Aggregate | Aggregate | Gasoline | 0.00055 | 0.01200 | 0.04204 | 933.86742 | 2.05883 |
| Riverside (SC) | 2018 | PTO | Aggregate | Aggregate | Diesel | 0.13881 | 0.00000 | 0.00000 | 6,392.50801 | 14.09308 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Gasoline | 0.00197 | 0.00800 | 0.04685 | 1,000.92948 | 2.20987 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Diesel | 0.06202 | 0.01200 | 0.04685 | 1,451.18550 | 3.19932 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Natural Gas | 0.00448 | 0.01200 | 0.04685 | 573.57508 | 1.26452 |
| Riverside (SC) | 2018 | T6 CAIRP Class 4 | Aggregate | Aggregate | Diesel | 0.08024 | 0.01200 | 0.04205 | 35.88083 | 0.07910 |
| Riverside (SC) | 2018 | T6 CAIRP Class 5 | Aggregate | Aggregate | Diesel | 0.07030 | 0.01200 | 0.04205 | 45.57903 | 0.10048 |
| Riverside (SC) | 2018 | T6 CAIRP Class 6 | Aggregate | Aggregate | Diesel | 0.09733 | 0.01200 | 0.04205 | 144.99283 | 0.31965 |
| Riverside (SC) | 2018 | T6 CAIRP Class 7 | Aggregate | Aggregate | Diesel | 0.08288 | 0.01200 | 0.04205 | 821.72602 | 1.81160 |
| Riverside (SC) | 2018 | T6 CAIRP Class 8 | Aggregate | Aggregate | Natural Gas | 0.00033 | 0.01200 | 0.04205 | 0.35516 | 0.00078 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Diesel | 0.23591 | 0.01200 | 0.04223 | 3,994.35462 | 8.80005 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Natural Gas | 0.00034 | 0.01200 | 0.04223 | 0.35516 | 0.00078 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Diesel | 0.13008 | 0.01200 | 0.04223 | 2,427.20339 | 5.35107 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Natural Gas | 0.00034 | 0.01200 | 0.04223 | 1.34839 | 0.00297 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 8 | Aggregate | Aggregate | Diesel | 0.22429 | 0.01200 | 0.04223 | 10,588.17656 | 23.34295 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 9 | Aggregate | Aggregate | Natural Gas | 0.00034 | 0.01200 | 0.04223 | 6.58878 | 0.01453 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 10 | Aggregate | Aggregate | Diesel | 0.15180 | 0.01200 | 0.04223 | 1,806.08343 | 3.98174 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 11 | Aggregate | Aggregate | Natural Gas | 0.00054 | 0.01200 | 0.04223 | 5.34357 | 0.01178 |
| Riverside (SC) | 2018 | T6 Instate Other Class 4 | Aggregate | Aggregate | Diesel | 0.23288 | 0.01200 | 0.04221 | 16,693.92814 | 36.80384 |
| Riverside (SC) | 2018 | T6 Instate Other Class 5 | Aggregate | Aggregate | Natural Gas | 0.00034 | 0.01200 | 0.04221 | 4.57074 | 0.01008 |
| Riverside (SC) | 2018 | T6 Instate Other Class 6 | Aggregate | Aggregate | Diesel | 0.11153 | 0.01200 | 0.04221 | 24,343.02748 | 53.67723 |
| Riverside (SC) | 2018 | T6 Instate Other Class 7 | Aggregate | Aggregate | Natural Gas | 0.00034 | 0.01200 | 0.04221 | 16.96019 | 0.03739 |
| Riverside (SC) | 2018 | T6 Instate Other Class 8 | Aggregate | Aggregate | Diesel | 0.18389 | 0.01200 | 0.04221 | 24,451.69741 | 53.90681 |
| Riverside (SC) | 2018 | T6 Instate Other Class 9 | Aggregate | Aggregate | Natural Gas | 0.00034 | 0.01200 | 0.04221 | 13.59852 | 0.02998 |
| Riverside (SC) | 2018 | T6 Instate Other Class 10 | Aggregate | Aggregate | Diesel | 0.14332 | 0.01200 | 0.04221 | 10,967.72457 | 23.51833 |
| Riverside (SC) | 2018 | T6 Instate Other Class 11 | Aggregate | Aggregate | Natural Gas | 0.00066 | 0.01200 | 0.04221 | 55.50298 | 0.12236 |
| Riverside (SC) | 2018 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Diesel | 0.25830 | 0.01200 | 0.04221 | 240.94482 | 0.53119 |
| Riverside (SC) | 2018 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Natural Gas | 0.00034 | 0.01200 | 0.04221 | 0.18103 | 0.00040 |
| Riverside (SC) | 2018 | T6 Instate Tractor Class 8 | Aggregate | Aggregate | Diesel | 0.12284 | 0.01200 | 0.04221 | 4,200.10259 | 9.29965 |
| Riverside (SC) | 2018 | T6 Instate Tractor Class 9 | Aggregate | Aggregate | Natural Gas | 0.00049 | 0.01200 | 0.04221 | 11.44708 | 0.02524 |
| Riverside (SC) | 2018 | T6 OOS Class 4 | Aggregate | Aggregate | Diesel | 0.08024 | 0.01200 | 0.04205 | 20.69811 | 0.04563 |
| Riverside (SC) | 2018 | T6 OOS Class 5 | Aggregate | Aggregate | Diesel | 0.07030 | 0.01200 | 0.04205 | 26.29259 | 0.05797 |
| Riverside (SC) | 2018 | T6 OOS Class 6 | Aggregate | Aggregate | Diesel | 0.09733 | 0.01200 | 0.04205 | 83.64014 | 0.18440 |
| Riverside (SC) | 2018 | T6 OOS Class 7 | Aggregate | Aggregate | Diesel | 0.09021 | 0.01200 | 0.04205 | 579.54830 | 1.27769 |
| Riverside (SC) | 2018 | T6 Public Class 4 | Aggregate | Aggregate | Diesel | 0.03991 | 0.01200 | 0.04211 | 292.87491 | 0.55749 |
| Riverside (SC) | 2018 | T6 Public Class 5 | Aggregate | Aggregate | Natural Gas | 0.00033 | 0.01200 | 0.04211 | 2.34758 | 0.00518 |
| Riverside (SC) | 2018 | T6 Public Class 6 | Aggregate | Aggregate | Diesel | 0.02443 | 0.01200 | 0.04211 | 336.41007 | 0.74166 |
| Riverside (SC) | 2018 | T6 Public Class 7 | Aggregate | Aggregate | Natural Gas | 0.00060 | 0.01200 | 0.04211 | 39.48706 | 0.08705 |
| Riverside (SC) | 2018 | T6 Public Class 8 | Aggregate | Aggregate | Diesel | 0.05679 | 0.01200 | 0.04211 | 691.75084 | 1.52505 |
| Riverside (SC) | 2018 | T6 Public Class 9 | Aggregate | Aggregate | Natural Gas | 0.00063 | 0.01200 | 0.04211 | 12.49274 | 0.02754 |
| Riverside (SC) | 2018 | T6 Public Class 10 | Aggregate | Aggregate | Diesel | 0.06484 | 0.01200 | 0.04211 | 1,859.16093 | 3.43736 |
| Riverside (SC) | 2018 | T6 Public Class 11 | Aggregate | Aggregate | Natural Gas | 0.00061 | 0.01200 | 0.04211 | 32.68798 | 0.07206 |
| Riverside (SC) | 2018 | T6 Utility Class 5 | Aggregate | Aggregate | Diesel | 0.00981 | 0.01200 | 0.04211 | 448.96087 | 0.98979 |
| Riverside (SC) | 2018 | T6 Utility Class 6 | Aggregate | Aggregate | Natural Gas | 0.00033 | 0.01200 | 0.04211 | 1.76285 | 0.00389 |
| Riverside (SC) | 2018 | T6 Utility Class 7 | Aggregate | Aggregate | Diesel | 0.01528 | 0.01200 | 0.04211 | 91.55827 | 0.20185 |
| Riverside (SC) | 2018 | T6 Utility Class 8 | Aggregate | Aggregate | Natural Gas | 0.00033 | 0.01200 | 0.04211 | 0.76495 | 0.00169 |
| Riverside (SC) | 2018 | T6 Utility Class 9 | Aggregate | Aggregate | Diesel | 0.01416 | 0.01200 | 0.04211 | 124.05826 | 0.27549 |
| Riverside (SC) | 2018 | T6 Utility Class 10 | Aggregate | Aggregate | Natural Gas | 0.00033 | 0.01200 | 0.04211 | 1.38911 | 0.00302 |
| Riverside (SC) | 2018 | T6 Utility Class 11 | Aggregate | Aggregate | Diesel | 0.00033 | 0.01200 | 0.04217 | 2,746.89837 | 6.05588 |
| Riverside (SC) | 2018 | T7S | Aggregate | Aggregate | Gasoline | 0.08617 | 0.03600 | 0.07826 | 66,307.10081 | 146.18225 |
| Riverside (SC) | 2018 | T7 CAIRP Class 8 | Aggregate | Aggregate | Natural Gas | 0.00125 | 0.03600 | 0.07457 | 144.78105 | 0.31919 |
| Riverside (SC) | 2018 | T7 NNOOS Class 8 | Aggregate | Aggregate | Diesel | 0.11840 | 0.03600 | 0.07804 | 91,413.19076 | 201.53175 |
| Riverside (SC) | 2018 | T7 NNOOS Class 9 | Aggregate | Aggregate | Diesel | 0.09697 | 0.03600 | 0.07846 | 30,192.54491 | 66.56322 |
| Riverside (SC) | 2018 | T7 POLA Class 8 | Aggregate | Aggregate | Diesel | 0.03698 | 0.03600 | 0.08395 | 35,446.24877 | 78.14567 |
| Riverside (SC) | 2018 | T7 POLA Class 9 | Aggregate | Aggregate | Natural Gas | 0.00101 | 0.03600 | 0.08210 | 1,339.39319 | 2.95286 |
| Riverside (SC) | 2018 | T7 Public Class 8 | Aggregate | Aggregate | Diesel | 0.08164 | 0.03600 | 0.09597 | 6,223.43097 | 13.72033 |
| Riverside (SC) | 2018 | T7 Public Class 9 | Aggregate | Aggregate | Natural Gas | 0.00110 | 0.03600 | 0.07937 | 531.25998 | 1.17123 |
| Riverside (SC) | 2018 | T7 Single Concrete/Transit Mix Class 8 | Aggregate | Aggregate | Diesel | 0.10403 | 0.03600 | 0.08013 | 19,994.23002 | 42.69885 |
| Riverside (SC) | 2018 | T7 Single Concrete/Transit Mix Class 9 | Aggregate | Aggregate | Natural Gas | 0.00146 | 0.03600 | 0.07443 | 882.15128 | 1.28342 |
| Riverside (SC) | 2018 | T7 Single Dump Class 8 | Aggregate | Aggregate | Diesel | 0.12986 | 0.03600 | 0.08419 | 17,110.10248 | 37.72135 |
| Riverside (SC) | 2018 | T7 Single Dump Class 9 | Aggregate | Aggregate | Natural Gas | 0.00145 | 0.03600 | 0.07628 | 475.52197 | 1.04835 |
| Riverside (SC) | 2018 | T7 Single Other Class 8 | Aggregate | Aggregate | Diesel | 0.10991 | 0.03600 | 0.08480 | 17,659.82445 | 38.93328 |
| Riverside (SC) | 2018 | T7 Single Other Class 9 | Aggregate | Aggregate | Natural Gas | 0.00141 | 0.03600 | 0.07712 | 397.57774 | 0.87651 |
| Riverside (SC) | 2018 | T7 SWCV Class 8 | Aggregate | Aggregate | Diesel | 0.01548 | 0.03600 | 0.21000 | 1,691.60176 | 3.72935 |
| Riverside (SC) | 2018 | T7 SWCV Class 9 | Aggregate | Aggregate | Natural Gas | 0.01084 | 0.03600 | 0.21000 | 1,147.81109 | 2.53049 |
| Riverside (SC) | 2018 | T7 Tractor Class 8 | Aggregate | Aggregate | Diesel | 0.11745 | 0.03600 | 0.08261 | 63,647.64866 | 140.31916 |
| Riverside (SC) | 2018 | T7 Tractor Class 9 | Aggregate | Aggregate | Natural Gas | 0.00122 | 0.03600 | 0.07438 | 620.98435 | 1.14857 |
| Riverside (SC) | 2018 | T7 Utility Class 8 | Aggregate | Aggregate | Diesel | 0.01842 | 0.03600 | 0.07850 | 740.64592 | 1.63285 |
| Riverside (SC) | 2018 | T7S | Aggregate | Aggregate | Gasoline | 0.00392 | 0.02000 | 0.09365 | 66.04133 | 0.14560 |
| Riverside (SC) | 2018 | UBUS | Aggregate | Aggregate | Gasoline | 0.00120 | 0.01050 | 0.10287 | 2,741.17452 | 6.04326 |
| Riverside (SC) | 2018 | UBUS | Aggregate | Aggregate | Diesel | 0.00220 | 0.01200 | 0.11000 | 3,89996 | 0.00813 |
| Riverside (SC) | 2018 | UBUS | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.05500 | 0.12092 | 0.00027 |
| Riverside (SC) | 2018 | UBUS | Aggregate | Aggregate | Natural Gas | 0.00019 | 0.03026 | 0.11000 | 4,342.52993 | 9.57365 |

grams 1,278,684.08831
grams/mile 0.03210
pounds 2,819.01817
pounds/mile 0.00007

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2018, 2040

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | PM2.5_RUNEX | PM2.5_PMTW | PM2.5_PMBW | PM2.5_GRAMS | PM2.5_LBS |
|----------------|---------------|--|------------|-----------|----------------|-------------|------------|------------|---------------|-----------|
| Riverside (SC) | 2018 | All Other Buses | Aggregate | Aggregate | Diesel | 0.33788 | 0.00300 | 0.01471 | 3,667.62097 | 8.08573 |
| Riverside (SC) | 2018 | All Other Buses | Aggregate | Aggregate | Natural Gas | 0.00038 | 0.00300 | 0.01471 | 19.90588 | 0.04388 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Gasoline | 0.00132 | 0.00200 | 0.00241 | 115,256.27415 | 254.09680 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Diesel | 0.02260 | 0.00200 | 0.00241 | 1,829.44801 | 4.03325 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.00153 | 355.50107 | 0.78375 |
| Riverside (SC) | 2018 | LDA | Aggregate | Aggregate | Plug-in Hybrid | 0.00081 | 0.00200 | 0.00130 | 1,278.26055 | 2.81808 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Gasoline | 0.00283 | 0.00200 | 0.00292 | 13,266.13153 | 29.24684 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Diesel | 0.21859 | 0.00200 | 0.00331 | 237.31051 | 0.52319 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.00154 | 1,84707 | 0.00407 |
| Riverside (SC) | 2018 | LDT1 | Aggregate | Aggregate | Plug-in Hybrid | 0.00098 | 0.00200 | 0.00130 | 0.11683 | 0.00026 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Gasoline | 0.00147 | 0.00200 | 0.00280 | 43,076.65400 | 94.96784 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Diesel | 0.01360 | 0.00200 | 0.00258 | 413.55819 | 0.91174 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.00154 | 0.88216 | 0.00194 |
| Riverside (SC) | 2018 | LDT2 | Aggregate | Aggregate | Plug-in Hybrid | 0.00097 | 0.00200 | 0.00130 | 1,421,387 | 0.03134 |
| Riverside (SC) | 2018 | LHD1 | Aggregate | Aggregate | Gasoline | 0.00118 | 0.00200 | 0.02730 | 19,503.67052 | 43.19609 |
| Riverside (SC) | 2018 | LHD1 | Aggregate | Aggregate | Diesel | 0.03632 | 0.00300 | 0.02730 | 40,407.33663 | 89.08300 |
| Riverside (SC) | 2018 | LHD2 | Aggregate | Aggregate | Gasoline | 0.00055 | 0.00200 | 0.03185 | 3,059.30146 | 6.74461 |
| Riverside (SC) | 2018 | LHD2 | Aggregate | Aggregate | Diesel | 0.03069 | 0.00300 | 0.03185 | 16,232.62109 | 35.78683 |
| Riverside (SC) | 2018 | MCY | Aggregate | Aggregate | Gasoline | 0.00155 | 0.00100 | 0.00420 | 1,076.90199 | 2.37116 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Gasoline | 0.00149 | 0.00200 | 0.00290 | 40,476.68664 | 89.23589 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Diesel | 0.00826 | 0.00200 | 0.00268 | 1,115.63550 | 2.45956 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.00156 | 0.38233 | 0.00084 |
| Riverside (SC) | 2018 | MDV | Aggregate | Aggregate | Plug-in Hybrid | 0.00098 | 0.00200 | 0.00130 | 84.18554 | 0.18590 |
| Riverside (SC) | 2018 | MH | Aggregate | Aggregate | Gasoline | 0.00140 | 0.00300 | 0.01476 | 1,087.20390 | 2.39688 |
| Riverside (SC) | 2018 | MH | Aggregate | Aggregate | Diesel | 0.15376 | 0.00400 | 0.01474 | 3,510.97216 | 7.74037 |
| Riverside (SC) | 2018 | Motor Coach | Aggregate | Aggregate | Diesel | 0.12429 | 0.00300 | 0.02931 | 795.32390 | 1.75339 |
| Riverside (SC) | 2018 | OBUS | Aggregate | Aggregate | Gasoline | 0.00051 | 0.00300 | 0.01471 | 311.69684 | 0.68717 |
| Riverside (SC) | 2018 | PTO | Aggregate | Aggregate | Diesel | 0.13281 | 0.00000 | 0.00000 | 6,115.97151 | 13.48342 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Gasoline | 0.00184 | 0.00200 | 0.01640 | 356.42108 | 0.78577 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Diesel | 0.05934 | 0.00300 | 0.01640 | 945.31359 | 2.08406 |
| Riverside (SC) | 2018 | SBUS | Aggregate | Aggregate | Natural Gas | 0.00412 | 0.00300 | 0.01640 | 213.00417 | 0.46959 |
| Riverside (SC) | 2018 | T6 CAIRP Class 4 | Aggregate | Aggregate | Diesel | 0.07676 | 0.00300 | 0.01472 | 25.24533 | 0.05566 |
| Riverside (SC) | 2018 | T6 CAIRP Class 5 | Aggregate | Aggregate | Diesel | 0.06726 | 0.00300 | 0.01472 | 31.14663 | 0.06867 |
| Riverside (SC) | 2018 | T6 CAIRP Class 6 | Aggregate | Aggregate | Diesel | 0.09312 | 0.00300 | 0.01472 | 106.16042 | 0.23404 |
| Riverside (SC) | 2018 | T6 CAIRP Class 7 | Aggregate | Aggregate | Diesel | 0.07929 | 0.00300 | 0.01472 | 582.16724 | 1.28346 |
| Riverside (SC) | 2018 | T6 CAIRP Class 7 | Aggregate | Aggregate | Natural Gas | 0.00030 | 0.00300 | 0.01472 | 0.11769 | 0.00026 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Diesel | 0.22570 | 0.00300 | 0.01478 | 3,352.04412 | 7.39000 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01478 | 0.32289 | 0.00067 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Diesel | 0.12445 | 0.00300 | 0.01478 | 1,873.07580 | 4.12943 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01478 | 0.44710 | 0.00099 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Diesel | 0.21459 | 0.00300 | 0.01478 | 8,833.63299 | 19.47484 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01478 | 2.18474 | 0.00482 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Natural Gas | 0.14524 | 0.00300 | 0.01478 | 1,428.99516 | 3.15040 |
| Riverside (SC) | 2018 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Natural Gas | 0.00050 | 0.00300 | 0.01478 | 1.78328 | 0.00393 |
| Riverside (SC) | 2018 | T6 Instate Other Class 4 | Aggregate | Aggregate | Diesel | 0.22281 | 0.00300 | 0.01478 | 13,989.25690 | 30.84106 |
| Riverside (SC) | 2018 | T6 Instate Other Class 4 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01478 | 1.51548 | 0.00334 |
| Riverside (SC) | 2018 | T6 Instate Other Class 5 | Aggregate | Aggregate | Diesel | 0.10670 | 0.00300 | 0.01478 | 18,282.69411 | 40.96022 |
| Riverside (SC) | 2018 | T6 Instate Other Class 5 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01478 | 5.62333 | 0.01240 |
| Riverside (SC) | 2018 | T6 Instate Other Class 6 | Aggregate | Aggregate | Diesel | 0.17594 | 0.00300 | 0.01478 | 19,892.73754 | 43.85601 |
| Riverside (SC) | 2018 | T6 Instate Other Class 6 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01478 | 4.50873 | 0.00994 |
| Riverside (SC) | 2018 | T6 Instate Other Class 7 | Aggregate | Aggregate | Diesel | 0.13712 | 0.00300 | 0.01478 | 8,364.96623 | 18.44161 |
| Riverside (SC) | 2018 | T6 Instate Other Class 7 | Aggregate | Aggregate | Natural Gas | 0.00061 | 0.00300 | 0.01478 | 18.59269 | 0.04099 |
| Riverside (SC) | 2018 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Diesel | 0.24713 | 0.00300 | 0.01478 | 204.23591 | 0.45026 |
| Riverside (SC) | 2018 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01478 | 0.06002 | 0.00013 |
| Riverside (SC) | 2018 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Diesel | 0.11753 | 0.00300 | 0.01478 | 3,209.64216 | 7.07696 |
| Riverside (SC) | 2018 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Natural Gas | 0.00045 | 0.00300 | 0.01478 | 3.81427 | 0.00841 |
| Riverside (SC) | 2018 | T6 OOS Class 4 | Aggregate | Aggregate | Diesel | 0.07676 | 0.00300 | 0.01472 | 14.56295 | 0.03211 |
| Riverside (SC) | 2018 | T6 OOS Class 5 | Aggregate | Aggregate | Diesel | 0.06726 | 0.00300 | 0.01472 | 17.96716 | 0.03961 |
| Riverside (SC) | 2018 | T6 OOS Class 6 | Aggregate | Aggregate | Diesel | 0.09312 | 0.00300 | 0.01472 | 61.23939 | 0.13501 |
| Riverside (SC) | 2018 | T6 OOS Class 7 | Aggregate | Aggregate | Diesel | 0.08631 | 0.00300 | 0.01472 | 417.90005 | 0.92132 |
| Riverside (SC) | 2018 | T6 Public Class 4 | Aggregate | Aggregate | Diesel | 0.03518 | 0.00300 | 0.01474 | 159.40479 | 0.33159 |
| Riverside (SC) | 2018 | T6 Public Class 4 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01474 | 0.77807 | 0.00172 |
| Riverside (SC) | 2018 | T6 Public Class 5 | Aggregate | Aggregate | Diesel | 0.02337 | 0.00300 | 0.01474 | 176.09874 | 0.38823 |
| Riverside (SC) | 2018 | T6 Public Class 5 | Aggregate | Aggregate | Natural Gas | 0.00056 | 0.00300 | 0.01474 | 13.20292 | 0.02911 |
| Riverside (SC) | 2018 | T6 Public Class 6 | Aggregate | Aggregate | Diesel | 0.05434 | 0.00300 | 0.01474 | 449.66766 | 0.99113 |
| Riverside (SC) | 2018 | T6 Public Class 6 | Aggregate | Aggregate | Natural Gas | 0.00055 | 0.00300 | 0.01474 | 4.18087 | 0.00922 |
| Riverside (SC) | 2018 | T6 Public Class 7 | Aggregate | Aggregate | Diesel | 0.06204 | 0.00300 | 0.01474 | 1,045.66159 | 2.30529 |
| Riverside (SC) | 2018 | T6 Public Class 7 | Aggregate | Aggregate | Natural Gas | 0.00056 | 0.00300 | 0.01474 | 10.93128 | 0.02410 |
| Riverside (SC) | 2018 | T6 Utility Class 5 | Aggregate | Aggregate | Diesel | 0.00938 | 0.00300 | 0.01474 | 190.50429 | 0.41999 |
| Riverside (SC) | 2018 | T6 Utility Class 5 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01474 | 0.58427 | 0.00129 |
| Riverside (SC) | 2018 | T6 Utility Class 6 | Aggregate | Aggregate | Diesel | 0.01462 | 0.00300 | 0.01474 | 42.69468 | 0.09413 |
| Riverside (SC) | 2018 | T6 Utility Class 6 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01474 | 0.25353 | 0.00056 |
| Riverside (SC) | 2018 | T6 Utility Class 7 | Aggregate | Aggregate | Diesel | 0.01355 | 0.00300 | 0.01474 | 57.26842 | 0.12626 |
| Riverside (SC) | 2018 | T6 Utility Class 7 | Aggregate | Aggregate | Natural Gas | 0.00031 | 0.00300 | 0.01474 | 0.15377 | 0.00100 |
| Riverside (SC) | 2018 | T6 TIS | Aggregate | Aggregate | Gasoline | 0.00114 | 0.00300 | 0.01476 | 936.90869 | 2.06573 |
| Riverside (SC) | 2018 | T7 CAIRP Class 8 | Aggregate | Aggregate | Diesel | 0.08245 | 0.00900 | 0.02739 | 39,313.21186 | 86.67087 |
| Riverside (SC) | 2018 | T7 CAIRP Class 8 | Aggregate | Aggregate | Natural Gas | 0.00115 | 0.00900 | 0.02610 | 46.93602 | 0.10348 |
| Riverside (SC) | 2018 | T7 NNOOS Class 8 | Aggregate | Aggregate | Diesel | 0.11328 | 0.00900 | 0.02731 | 58,831.22372 | 129.70075 |
| Riverside (SC) | 2018 | T7 NNOOS Class 8 | Aggregate | Aggregate | Diesel | 0.09278 | 0.00900 | 0.02746 | 18,453.20435 | 40.86679 |
| Riverside (SC) | 2018 | T7 POLA Class 8 | Aggregate | Aggregate | Diesel | 0.03538 | 0.00900 | 0.02938 | 16,661.24166 | 36.73178 |
| Riverside (SC) | 2018 | T7 POLA Class 8 | Aggregate | Aggregate | Natural Gas | 0.00093 | 0.00900 | 0.02874 | 434.76769 | 0.95850 |
| Riverside (SC) | 2018 | T7 Public Class 8 | Aggregate | Aggregate | Diesel | 0.07810 | 0.00900 | 0.03359 | 3,516.39435 | 7.75233 |
| Riverside (SC) | 2018 | T7 Public Class 8 | Aggregate | Aggregate | Natural Gas | 0.00101 | 0.00900 | 0.02778 | 172.38140 | 0.38004 |
| Riverside (SC) | 2018 | T7 Single Concrete/Transit Mix Class 8 | Aggregate | Aggregate | Diesel | 0.05953 | 0.00900 | 0.02804 | 12,012.61318 | 26.48330 |
| Riverside (SC) | 2018 | T7 Single Concrete/Transit Mix Class 8 | Aggregate | Aggregate | Natural Gas | 0.00134 | 0.00900 | 0.02605 | 189.33978 | 0.41742 |
| Riverside (SC) | 2018 | T7 Single Dump Class 8 | Aggregate | Aggregate | Diesel | 0.12425 | 0.00900 | 0.02947 | 11,133.68821 | 24.54560 |
| Riverside (SC) | 2018 | T7 Single Dump Class 8 | Aggregate | Aggregate | Natural Gas | 0.00133 | 0.00900 | 0.02670 | 154.82588 | 0.34133 |
| Riverside (SC) | 2018 | T7 Single Other Class 8 | Aggregate | Aggregate | Diesel | 0.15395 | 0.00900 | 0.02968 | 12,075.63711 | 26.82224 |
| Riverside (SC) | 2018 | T7 Single Other Class 8 | Aggregate | Aggregate | Natural Gas | 0.00129 | 0.00900 | 0.02699 | 129.43619 | 0.28536 |
| Riverside (SC) | 2018 | T7 SWCV Class 8 | Aggregate | Aggregate | Diesel | 0.01481 | 0.00900 | 0.07350 | 629.55046 | 1.38792 |
| Riverside (SC) | 2018 | T7 SWCV Class 8 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00900 | 0.07350 | 413.22874 | 0.91101 |
| Riverside (SC) | 2018 | T7 Tractor Class 8 | Aggregate | Aggregate | Diesel | 0.11237 | 0.00900 | 0.02891 | 40,520.08095 | 89.33156 |
| Riverside (SC) | 2018 | T7 Tractor Class 8 | Aggregate | Aggregate | Natural Gas | 0.00112 | 0.00900 | 0.02933 | 168.78440 | 0.37211 |
| Riverside (SC) | 2018 | | | | | | | | | |

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2018, 2040

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTOXAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | Population | Total VMT | CVMT | EVMT | Trips | Energy Consumption |
|----------------|---------------|-----------------------------|------------|-----------|----------------|---------------|------------------|------------------|-----------------|-----------------|--------------------|
| Riverside (SC) | 2040 | All Other Buses | Aggregate | Aggregate | Diesel | 204,99138 | 10,710,53449 | 10,710,53449 | 0.00000 | 1,824,42324 | 0.00000 |
| Riverside (SC) | 2040 | All Other Buses | Aggregate | Aggregate | Natural Gas | 55,29742 | 3,041,90675 | 3,041,90675 | 0.00000 | 492,14707 | 0.00000 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Gasoline | 493,021,64251 | 21,095,278,65271 | 21,095,278,65271 | 0.00000 | 2,289,259,09141 | 0.00000 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Diesel | 397,97632 | 14,228,46197 | 14,228,46197 | 0.00000 | 1,727,25232 | 0.00000 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Electricity | 63,036,02803 | 2,559,309,41306 | 0.00000 | 2,559,309,41306 | 299,117,4721 | 988,104,66474 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Plug-in Hybrid | 22,755,25751 | 986,967,08068 | 407,957,27118 | 579,030,41950 | 111,842,09028 | 174,884,43973 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Gasoline | 34,608,88612 | 1,372,531,92255 | 1,372,531,92255 | 0.00000 | 154,704,15684 | 0.00000 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Diesel | 0,33454 | 14,66320 | 14,66320 | 0.00000 | 1,57933 | 0.00000 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Electricity | 786,18053 | 33,324,72115 | 0.00000 | 33,324,72115 | 3,784,76435 | 12,866,09280 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Plug-in Hybrid | 610,73783 | 27,906,08275 | 11,405,27583 | 16,500,80693 | 3,002,07134 | 5,001,85728 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Gasoline | 265,183,82571 | 11,274,853,97413 | 11,274,853,97413 | 0.00000 | 1,229,683,58929 | 0.00000 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Diesel | 987,05002 | 42,589,22619 | 42,589,22619 | 0.00000 | 4,618,53117 | 0.00000 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Electricity | 9,284,38842 | 268,729,51893 | 0.00000 | 268,729,51893 | 44,502,64571 | 103,751,73736 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Plug-in Hybrid | 6,619,11394 | 292,267,33489 | 119,841,99117 | 172,425,34372 | 32,532,94500 | 52,077,65331 |
| Riverside (SC) | 2040 | LHD1 | Aggregate | Aggregate | Gasoline | 13,385,54328 | 461,388,90924 | 461,388,90924 | 0.00000 | 199,124,05941 | 0.00000 |
| Riverside (SC) | 2040 | LHD1 | Aggregate | Aggregate | Diesel | 10,210,98655 | 332,703,92358 | 332,703,92358 | 0.00000 | 128,441,36543 | 0.00000 |
| Riverside (SC) | 2040 | LHD1 | Aggregate | Aggregate | Electricity | 9,066,73726 | 432,819,64045 | 0.00000 | 432,819,64045 | 127,036,89975 | 244,592,38625 |
| Riverside (SC) | 2040 | LHD2 | Aggregate | Aggregate | Gasoline | 1,680,73164 | 55,921,25251 | 55,921,25251 | 0.00000 | 25,040,39716 | 0.00000 |
| Riverside (SC) | 2040 | LHD2 | Aggregate | Aggregate | Diesel | 5,089,12577 | 158,981,53636 | 158,981,53636 | 0.00000 | 64,014,80069 | 0.00000 |
| Riverside (SC) | 2040 | LHD2 | Aggregate | Aggregate | Electricity | 2,276,31919 | 104,811,60358 | 0.00000 | 104,811,60358 | 30,142,99422 | 59,253,30925 |
| Riverside (SC) | 2040 | MCY | Aggregate | Aggregate | Gasoline | 23,998,45692 | 131,623,17038 | 131,623,17038 | 0.00000 | 47,996,91383 | 0.00000 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Gasoline | 165,115,67110 | 6,642,989,08703 | 6,642,989,08703 | 0.00000 | 752,743,64957 | 0.00000 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Diesel | 1,915,93890 | 75,158,87749 | 75,158,87749 | 0.00000 | 8,650,01048 | 0.00000 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Electricity | 8,810,39037 | 251,909,56506 | 0.00000 | 251,909,56506 | 42,962,21052 | 97,292,51779 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Plug-in Hybrid | 4,282,45464 | 182,778,86133 | 75,143,42292 | 107,635,43841 | 21,048,26456 | 32,509,11045 |
| Riverside (SC) | 2040 | MH | Aggregate | Aggregate | Gasoline | 2,098,56109 | 19,579,08364 | 19,579,08364 | 0.00000 | 209,94005 | 0.00000 |
| Riverside (SC) | 2040 | MH | Aggregate | Aggregate | Diesel | 1,421,11401 | 11,691,91624 | 11,691,91624 | 0.00000 | 142,11140 | 0.00000 |
| Riverside (SC) | 2040 | Motor Coach | Aggregate | Aggregate | Diesel | 45,18956 | 5,675,30823 | 5,675,30823 | 0.00000 | 1,038,06294 | 0.00000 |
| Riverside (SC) | 2040 | OBUS | Aggregate | Aggregate | Gasoline | 229,04602 | 5,599,19259 | 5,599,19259 | 0.00000 | 4,415,04969 | 0.00000 |
| Riverside (SC) | 2040 | OBUS | Aggregate | Aggregate | Electricity | 83,87198 | 4,559,15362 | 0.00000 | 4,559,15362 | 1,678,11050 | 5,662,61654 |
| Riverside (SC) | 2040 | PTO | Aggregate | Aggregate | Diesel | 0.00000 | 34,641,36997 | 34,641,36997 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2040 | PTO | Aggregate | Aggregate | Electricity | 0.00000 | 25,369,11422 | 0.00000 | 25,369,11422 | 0.00000 | 52,552,59625 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Gasoline | 8,368,2808 | 10,340,89857 | 10,340,89857 | 0.00000 | 1,061,12339 | 0.00000 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Diesel | 192,60215 | 3,359,02809 | 3,359,02809 | 0.00000 | 2,788,87910 | 0.00000 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Electricity | 305,08131 | 8,462,37622 | 0.00000 | 8,462,37622 | 3,941,75526 | 11,511,83175 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Natural Gas | 512,38014 | 10,481,50525 | 10,481,50525 | 0.00000 | 7,419,39474 | 0.00000 |
| Riverside (SC) | 2040 | T6 CAIRP Class 4 | Aggregate | Aggregate | Diesel | 2,98000 | 205,99413 | 205,99413 | 0.00000 | 68,48043 | 0.00000 |
| Riverside (SC) | 2040 | T6 CAIRP Class 5 | Aggregate | Aggregate | Electricity | 2,89217 | 222,80133 | 222,80133 | 0.00000 | 64,20380 | 277,51781 |
| Riverside (SC) | 2040 | T6 CAIRP Class 5 | Aggregate | Aggregate | Diesel | 3,68634 | 283,87172 | 283,87172 | 0.00000 | 84,71198 | 0.00000 |
| Riverside (SC) | 2040 | T6 CAIRP Class 5 | Aggregate | Aggregate | Electricity | 3,42737 | 304,35853 | 0.00000 | 304,35853 | 78,76097 | 379,10419 |
| Riverside (SC) | 2040 | T6 CAIRP Class 6 | Aggregate | Aggregate | Diesel | 16,40918 | 732,11137 | 732,11137 | 0.00000 | 377,08301 | 0.00000 |
| Riverside (SC) | 2040 | T6 CAIRP Class 6 | Aggregate | Aggregate | Electricity | 15,78798 | 894,95112 | 0.00000 | 894,95112 | 362,80097 | 1,062,63441 |
| Riverside (SC) | 2040 | T6 CAIRP Class 7 | Aggregate | Aggregate | Diesel | 37,13329 | 7,489,51044 | 7,489,51044 | 0.00000 | 853,32309 | 0.00000 |
| Riverside (SC) | 2040 | T6 CAIRP Class 7 | Aggregate | Aggregate | Electricity | 10,01852 | 2,146,76256 | 0.00000 | 2,146,76256 | 230,22564 | 2,673,97357 |
| Riverside (SC) | 2040 | T6 CAIRP Class 7 | Aggregate | Aggregate | Natural Gas | 0.02464 | 4,95982 | 4,95982 | 0.00000 | 0.56615 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Diesel | 389,32898 | 12,639,83930 | 12,639,83930 | 0.00000 | 5,555,72021 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Electricity | 254,00000 | 9,391,11314 | 0.00000 | 9,391,11314 | 1,991,51279 | 11,816,51779 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Natural Gas | 2,73826 | 90,25261 | 90,25261 | 0.00000 | 39,07493 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Diesel | 372,64767 | 12,098,32454 | 12,098,32454 | 0.00000 | 5,317,68223 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Electricity | 243,43006 | 8,991,83422 | 0.00000 | 8,991,83422 | 3,473,74701 | 11,156,97946 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Natural Gas | 8,18099 | 83,44345 | 83,44345 | 0.00000 | 35,93316 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Diesel | 1,077,55539 | 34,977,55053 | 34,977,55053 | 0.00000 | 15,373,86141 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Electricity | 704,29005 | 25,976,56837 | 0.00000 | 25,976,56837 | 10,050,21897 | 32,231,47054 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Natural Gas | 7,49263 | 247,31034 | 247,31034 | 0.00000 | 106,91985 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Diesel | 197,43389 | 9,867,57020 | 9,867,57020 | 0.00000 | 2,817,38158 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Electricity | 14,17440 | 4,101,17444 | 0.00000 | 4,101,17444 | 1,075,75893 | 5,088,93931 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Natural Gas | 5,15306 | 255,44071 | 255,44071 | 0.00000 | 73,53410 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Other Class 4 | Aggregate | Aggregate | Diesel | 1,355,19075 | 52,084,95400 | 52,084,95400 | 0.00000 | 15,666,00512 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Other Class 4 | Aggregate | Aggregate | Electricity | 890,58986 | 40,987,29605 | 0.00000 | 40,987,29605 | 10,295,21882 | 50,894,93729 |
| Riverside (SC) | 2040 | T6 Instate Other Class 4 | Aggregate | Aggregate | Natural Gas | 9,37292 | 377,90553 | 377,90553 | 0.00000 | 108,35101 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Other Class 5 | Aggregate | Aggregate | Diesel | 3,497,91967 | 131,692,57095 | 131,692,57095 | 0.00000 | 39,742,35364 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Other Class 5 | Aggregate | Aggregate | Electricity | 2,246,93557 | 103,575,96058 | 0.00000 | 103,575,96058 | 25,974,57823 | 128,612,82705 |
| Riverside (SC) | 2040 | T6 Instate Other Class 5 | Aggregate | Aggregate | Natural Gas | 22,81856 | 930,57776 | 0.00000 | 930,57776 | 263,78258 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Other Class 6 | Aggregate | Aggregate | Diesel | 2,403,55979 | 92,191,63750 | 92,191,63750 | 0.00000 | 27,785,15114 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Other Class 6 | Aggregate | Aggregate | Electricity | 1,560,00000 | 5,600,00000 | 0.00000 | 5,600,00000 | 18,187,07803 | 89,839,35285 |
| Riverside (SC) | 2040 | T6 Instate Other Class 6 | Aggregate | Aggregate | Natural Gas | 16,20478 | 657,98280 | 657,98280 | 0.00000 | 187,32728 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Other Class 7 | Aggregate | Aggregate | Diesel | 1,471,68195 | 55,911,05990 | 55,911,05990 | 0.00000 | 17,012,64338 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Other Class 7 | Aggregate | Aggregate | Electricity | 513,32423 | 30,960,96892 | 0.00000 | 30,960,96892 | 5,934,02809 | 38,444,99639 |
| Riverside (SC) | 2040 | T6 Instate Other Class 7 | Aggregate | Aggregate | Natural Gas | 38,98295 | 1,419,56134 | 1,419,56134 | 0.00000 | 404,64289 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Diesel | 6,12341 | 662,90281 | 662,90281 | 0.00000 | 167,90281 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Electricity | 9,46551 | 573,10217 | 0.00000 | 573,10217 | 109,42133 | 711,63511 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Natural Gas | 0.09701 | 4,72446 | 4,72446 | 0.00000 | 1,12145 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Diesel | 569,61698 | 31,487,04874 | 31,487,04874 | 0.00000 | 6,479,57628 | 0.00000 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Electricity | 80,78903 | 6,132,29778 | 0.00000 | 6,132,29778 | 933,92123 | 7,614,25535 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Natural Gas | 14,91008 | 784,82581 | 0.00000 | 784,82581 | 165,32050 | 0.00000 |
| Riverside (SC) | 2040 | T6 OOS Class 4 | Aggregate | Aggregate | Diesel | 3,98019 | 247,35371 | 247,35371 | 0.00000 | 77,90648 | 0.00000 |
| Riverside (SC) | 2040 | T6 OOS Class 5 | Aggregate | Aggregate | Diesel | 4,18013 | 339,32481 | 339,32481 | 0.00000 | 96,05941 | 0.00000 |
| Riverside (SC) | | | | | | | | | | | |

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2018, 2040

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | PM10_RUNEX | PM10_PMTW | PM10_PMBW | PM10_GRAMS | PM10_LBS |
|----------------|---------------|-----------------------------|------------|-----------|----------------|------------|-----------|-----------|---------------|-----------|
| Riverside (SC) | 2040 | All Other Buses | Aggregate | Aggregate | Diesel | 0.02126 | 0.01200 | 0.04213 | 897.55973 | 1.78015 |
| Riverside (SC) | 2040 | All Other Buses | Aggregate | Aggregate | Natural Gas | 0.00094 | 0.01200 | 0.04213 | 167.50694 | 0.36929 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Gasoline | 0.00056 | 0.00800 | 0.00698 | 327.96614658 | 723.04218 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Diesel | 0.00228 | 0.00800 | 0.00706 | 246.08681 | 0.54385 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00439 | 31,711.24145 | 69.91138 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Plug-in Hybrid | 0.00023 | 0.00800 | 0.00392 | 11,998.98291 | 26.45325 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Gasoline | 0.00067 | 0.00800 | 0.00829 | 23,288.44033 | 51.34226 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Diesel | 0.00391 | 0.00800 | 0.00809 | 0.29337 | 0.00065 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00439 | 412.82703 | 0.91013 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Plug-in Hybrid | 0.00020 | 0.00800 | 0.00393 | 339.18265 | 0.74777 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Gasoline | 0.00058 | 0.00800 | 0.00815 | 188,573.44355 | 415.73362 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Diesel | 0.00398 | 0.00800 | 0.00812 | 856.18764 | 1.88757 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00439 | 3,329.49302 | 7.34028 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Plug-in Hybrid | 0.00021 | 0.00800 | 0.00393 | 3,548.39225 | 7.82287 |
| Riverside (SC) | 2040 | LHD1 | Aggregate | Aggregate | Gasoline | 0.00110 | 0.00800 | 0.00780 | 40,447.73178 | 89.17206 |
| Riverside (SC) | 2040 | LHD1 | Aggregate | Aggregate | Diesel | 0.01433 | 0.01200 | 0.00800 | 34,711.26236 | 76.52530 |
| Riverside (SC) | 2040 | LHD1 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00390 | 20,342.52893 | 44.84764 |
| Riverside (SC) | 2040 | LHD2 | Aggregate | Aggregate | Gasoline | 0.00107 | 0.00800 | 0.00910 | 5,595.79843 | 12.33663 |
| Riverside (SC) | 2040 | LHD2 | Aggregate | Aggregate | Diesel | 0.01711 | 0.01200 | 0.00910 | 13,095.56684 | 42.08855 |
| Riverside (SC) | 2040 | LHD2 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00450 | 5,607.42240 | 12.36226 |
| Riverside (SC) | 2040 | MCY | Aggregate | Aggregate | Gasoline | 0.00216 | 0.00400 | 0.01200 | 2,390.57416 | 5.27032 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Gasoline | 0.00062 | 0.00800 | 0.00834 | 112,641.08629 | 248.33129 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Diesel | 0.00180 | 0.00800 | 0.00841 | 1,368.50735 | 3.01704 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Electricity | 0.00000 | 0.00800 | 0.00440 | 3,123.55018 | 6.88626 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Plug-in Hybrid | 0.00022 | 0.00800 | 0.00393 | 2,221.58868 | 4.89777 |
| Riverside (SC) | 2040 | MH | Aggregate | Aggregate | Gasoline | 0.00096 | 0.01200 | 0.04221 | 1,080.27216 | 2.38159 |
| Riverside (SC) | 2040 | MH | Aggregate | Aggregate | Diesel | 0.07032 | 0.01600 | 0.04215 | 1,490.47643 | 3.28594 |
| Riverside (SC) | 2040 | Motor Coach | Aggregate | Aggregate | Diesel | 0.01894 | 0.01200 | 0.08456 | 655.52155 | 1.44518 |
| Riverside (SC) | 2040 | OBUS | Aggregate | Aggregate | Gasoline | 0.00062 | 0.04213 | 0.00624 | 2,908.19031 | 6.39344 |
| Riverside (SC) | 2040 | OBUS | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02106 | 150.74032 | 0.33233 |
| Riverside (SC) | 2040 | PTO | Aggregate | Aggregate | Diesel | 0.00409 | 0.00000 | 0.00000 | 141.64783 | 0.31228 |
| Riverside (SC) | 2040 | PTO | Aggregate | Aggregate | Electricity | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Gasoline | 0.00131 | 0.00800 | 0.04685 | 580.67777 | 1.28018 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Diesel | 0.00985 | 0.01200 | 0.04685 | 271.85632 | 0.59956 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Electricity | 0.00000 | 0.01117 | 0.02342 | 292.69915 | 0.64529 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Natural Gas | 0.00448 | 0.01200 | 0.04685 | 663.77174 | 1.46337 |
| Riverside (SC) | 2040 | T6 CAIRP Class 4 | Aggregate | Aggregate | Diesel | 0.00484 | 0.01200 | 0.04208 | 12.13828 | 0.02676 |
| Riverside (SC) | 2040 | T6 CAIRP Class 4 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02104 | 7.26142 | 0.01623 |
| Riverside (SC) | 2040 | T6 CAIRP Class 5 | Aggregate | Aggregate | Diesel | 0.00483 | 0.01200 | 0.04208 | 16.72298 | 0.03687 |
| Riverside (SC) | 2040 | T6 CAIRP Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02104 | 10.05609 | 0.02217 |
| Riverside (SC) | 2040 | T6 CAIRP Class 6 | Aggregate | Aggregate | Diesel | 0.00479 | 0.01200 | 0.04208 | 43.09930 | 0.09502 |
| Riverside (SC) | 2040 | T6 CAIRP Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02104 | 26.59582 | 0.05863 |
| Riverside (SC) | 2040 | T6 CAIRP Class 7 | Aggregate | Aggregate | Diesel | 0.00501 | 0.01200 | 0.04208 | 442.56559 | 0.97569 |
| Riverside (SC) | 2040 | T6 CAIRP Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02104 | 70.92966 | 0.15637 |
| Riverside (SC) | 2040 | T6 CAIRP Class 7 | Aggregate | Aggregate | Natural Gas | 0.00102 | 0.01200 | 0.04208 | 0.27329 | 0.00060 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Diesel | 0.00509 | 0.01200 | 0.04227 | 770.26633 | 1.65406 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02114 | 311.15172 | 0.68525 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Natural Gas | 0.00105 | 0.01200 | 0.04227 | 4.99325 | 0.01101 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Diesel | 0.00472 | 0.01200 | 0.04227 | 713.67225 | 1.57338 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02114 | 297.95437 | 0.65688 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Natural Gas | 0.00106 | 0.01200 | 0.04227 | 4.61686 | 0.01018 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Diesel | 0.00486 | 0.01200 | 0.04227 | 2,968.15187 | 6.55950 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02114 | 860.76232 | 1.89766 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Natural Gas | 0.00105 | 0.01200 | 0.04227 | 13.68214 | 0.03016 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Diesel | 0.00687 | 0.01200 | 0.04227 | 693.28641 | 1.33002 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02114 | 135.89085 | 0.29608 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Natural Gas | 0.00081 | 0.01200 | 0.04227 | 14.06939 | 0.03102 |
| Riverside (SC) | 2040 | T6 Instate Other Class 4 | Aggregate | Aggregate | Diesel | 0.00487 | 0.01200 | 0.04225 | 3,079.17591 | 6.78843 |
| Riverside (SC) | 2040 | T6 Instate Other Class 4 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02113 | 1,357.75548 | 2.99334 |
| Riverside (SC) | 2040 | T6 Instate Other Class 4 | Aggregate | Aggregate | Natural Gas | 0.00106 | 0.01200 | 0.04225 | 20.90107 | 0.04608 |
| Riverside (SC) | 2040 | T6 Instate Other Class 5 | Aggregate | Aggregate | Diesel | 0.00467 | 0.01200 | 0.04225 | 7,759.98833 | 17.0768 |
| Riverside (SC) | 2040 | T6 Instate Other Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02113 | 3,431.08333 | 7.56425 |
| Riverside (SC) | 2040 | T6 Instate Other Class 5 | Aggregate | Aggregate | Natural Gas | 0.00106 | 0.01200 | 0.04225 | 51.47193 | 0.11348 |
| Riverside (SC) | 2040 | T6 Instate Other Class 6 | Aggregate | Aggregate | Diesel | 0.00479 | 0.01200 | 0.04225 | 5,443.14627 | 12.00009 |
| Riverside (SC) | 2040 | T6 Instate Other Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02113 | 2,586.70044 | 5.28983 |
| Riverside (SC) | 2040 | T6 Instate Other Class 6 | Aggregate | Aggregate | Natural Gas | 0.00106 | 0.01200 | 0.04225 | 36.39054 | 0.08023 |
| Riverside (SC) | 2040 | T6 Instate Other Class 7 | Aggregate | Aggregate | Diesel | 0.00618 | 0.01200 | 0.04225 | 3,379.11787 | 7.44969 |
| Riverside (SC) | 2040 | T6 Instate Other Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02113 | 1,025.62085 | 2.26111 |
| Riverside (SC) | 2040 | T6 Instate Other Class 7 | Aggregate | Aggregate | Natural Gas | 0.00088 | 0.01200 | 0.04225 | 78.26711 | 0.17255 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Diesel | 0.00496 | 0.01200 | 0.04225 | 39.36177 | 0.08678 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02113 | 18.98473 | 0.04185 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Natural Gas | 0.00105 | 0.01200 | 0.04225 | 0.26130 | 0.00058 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Diesel | 0.00614 | 0.01200 | 0.04225 | 1,901.55836 | 4.19222 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02113 | 203.14004 | 0.44785 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Natural Gas | 0.00088 | 0.01200 | 0.04225 | 43.26839 | 0.09530 |
| Riverside (SC) | 2040 | T6 OOS Class 4 | Aggregate | Aggregate | Diesel | 0.00512 | 0.01200 | 0.04208 | 14,64470 | 0.03229 |
| Riverside (SC) | 2040 | T6 OOS Class 5 | Aggregate | Aggregate | Diesel | 0.00495 | 0.01200 | 0.04208 | 20,02940 | 0.04416 |
| Riverside (SC) | 2040 | T6 OOS Class 6 | Aggregate | Aggregate | Diesel | 0.00494 | 0.01200 | 0.04208 | 52.33584 | 0.11538 |
| Riverside (SC) | 2040 | T6 OOS Class 7 | Aggregate | Aggregate | Electricity | 0.00509 | 0.01200 | 0.04208 | 381.45469 | 0.84696 |
| Riverside (SC) | 2040 | T6 Public Class 4 | Aggregate | Aggregate | Diesel | 0.00709 | 0.01200 | 0.04215 | 108.96426 | 0.24023 |
| Riverside (SC) | 2040 | T6 Public Class 4 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02107 | 39.70426 | 0.08753 |
| Riverside (SC) | 2040 | T6 Public Class 4 | Aggregate | Aggregate | Natural Gas | 0.00104 | 0.01200 | 0.04215 | 17.26682 | 0.03807 |
| Riverside (SC) | 2040 | T6 Public Class 5 | Aggregate | Aggregate | Diesel | 0.00689 | 0.01200 | 0.04215 | 194.42308 | 0.42963 |
| Riverside (SC) | 2040 | T6 Public Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02107 | 71.82176 | 0.15780 |
| Riverside (SC) | 2040 | T6 Public Class 5 | Aggregate | Aggregate | Natural Gas | 0.00094 | 0.01200 | 0.04215 | 37.43376 | 0.08253 |
| Riverside (SC) | 2040 | T6 Public Class 6 | Aggregate | Aggregate | Diesel | 0.00625 | 0.01200 | 0.04215 | 252.78474 | 0.55730 |
| Riverside (SC) | 2040 | T6 Public Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02107 | 92.74148 | 0.20446 |
| Riverside (SC) | 2040 | T6 Public Class 6 | Aggregate | Aggregate | Natural Gas | 0.00102 | 0.01200 | 0.04215 | 44.16911 | 0.09738 |
| Riverside (SC) | 2040 | T6 Public Class 7 | Aggregate | Aggregate | Diesel | 0.00572 | 0.01200 | 0.04215 | 552.21341 | 1.21742 |
| Riverside (SC) | 2040 | T6 Public Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02107 | 182.77429 | 0.40295 |
| Riverside (SC) | 2040 | T6 Public Class 7 | Aggregate | Aggregate | Natural Gas | 0.00103 | 0.01200 | 0.04215 | 97.29168 | 0.21449 |
| Riverside (SC) | 2040 | T6 Utility Class 5 | Aggregate | Aggregate | Diesel | 0.00394 | 0.01200 | 0.04215 | 235.49430 | 0.51918 |
| Riverside (SC) | 2040 | T6 Utility Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02107 | 146.49656 | 0.32327 |
| Riverside (SC) | 2040 | T6 Utility Class 5 | Aggregate | Aggregate | Natural Gas | 0.00105 | 0.01200 | 0.04215 | 1.27925 | 0.00282 |
| Riverside (SC) | 2040 | T6 Utility Class 6 | Aggregate | Aggregate | Diesel | 0.00389 | 0.01200 | 0.04215 | 44.47690 | 0.09805 |
| Riverside (SC) | 2040 | T6 Utility Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02107 | 27.65272 | 0.06096 |
| Riverside (SC) | 2040 | T6 Utility Class 6 | Aggregate | Aggregate | Natural Gas | 0.00105 | 0.01200 | 0.04215 | 0.24298 | 0.00054 |
| Riverside (SC) | 2040 | T6 Utility Class 7 | Aggregate | Aggregate | Diesel | 0.00387 | 0.01200 | 0.04215 | 59.85443 | 0.13152 |
| Riverside (SC) | 2040 | T6 Utility Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02107 | 39.73669 | 0.08760 |
| Riverside (SC) | 2040 | T6 Utility Class 7 | Aggregate | Aggregate | Natural Gas | 0.00105 | 0.01200 | 0.04215 | 0.32548 | 0.00072 |
| Riverside (SC) | 2040 | T6T5 | Aggregate | Aggregate | Gasoline | 0.00102 | 0.01200 | 0.04221 | 1,780.19266 | 3.92466 |
| Riverside (SC) | 2040 | T6T5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.01200 | 0.02111 | 860.50624 | 1.89709 |
| Riverside (SC) | 2040 | T7 CAIRP Class 8 | Aggregate | Aggregate | Diesel | 0.02930 | 0.03600 | 0.08116 | 68,649.49940 | 151.34636 |
| Riverside (SC) | 2040 | T7 CAIRP Class 8 | Aggregate | Aggregate | Electricity | 0.00000 | 0.03600 | 0.04072 | 9,807.15243 | 21.62109 |

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2018, 2040

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | PM2.5_RUNEX | PM2.5_PMTW | PM2.5_PMBW | PM2.5_GRAMS | PM2.5_LBS |
|----------------|---------------|-----------------------------|------------|-----------|----------------|-------------|------------|------------|--------------|------------|
| Riverside (SC) | 2040 | All Other Buses | Aggregate | Aggregate | Diesel | 0.02934 | 0.00300 | 0.01474 | 407.93224 | 0.89934 |
| Riverside (SC) | 2040 | All Other Buses | Aggregate | Aggregate | Natural Gas | 0.00086 | 0.00300 | 0.01474 | 56.60543 | 0.12479 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Gasoline | 0.00052 | 0.00200 | 0.00244 | 104.68385363 | 230.78858 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Diesel | 0.00218 | 0.00200 | 0.00247 | 94.65735 | 0.20808 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.00154 | 9,051.48639 | 19,955.13 |
| Riverside (SC) | 2040 | LDA | Aggregate | Aggregate | Plug-in Hybrid | 0.00022 | 0.00200 | 0.00137 | 3,541.05573 | 7,807.99 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Gasoline | 0.00062 | 0.00200 | 0.00290 | 7,579.19059 | 16,709.27 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Diesel | 0.00374 | 0.00200 | 0.00283 | 0.12576 | 0.00028 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.00154 | 117.82968 | 0.25977 |
| Riverside (SC) | 2040 | LDT1 | Aggregate | Aggregate | Plug-in Hybrid | 0.00019 | 0.00200 | 0.00137 | 99.53338 | 0.21948 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Gasoline | 0.00053 | 0.00200 | 0.00285 | 60,685.68123 | 133,789.13 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Diesel | 0.00381 | 0.00200 | 0.00284 | 368.39895 | 0.81218 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.00154 | 950.33888 | 2.09514 |
| Riverside (SC) | 2040 | LDT2 | Aggregate | Aggregate | Plug-in Hybrid | 0.00029 | 0.00200 | 0.00137 | 1,043.78491 | 2,301.15 |
| Riverside (SC) | 2040 | LHD1 | Aggregate | Aggregate | Gasoline | 0.00101 | 0.00200 | 0.02730 | 14,075.77717 | 31,031.80 |
| Riverside (SC) | 2040 | LHD1 | Aggregate | Aggregate | Diesel | 0.01371 | 0.00300 | 0.02730 | 14,642.57515 | 32,281.38 |
| Riverside (SC) | 2040 | LHD1 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.01365 | 6,773.62931 | 14,933.31 |
| Riverside (SC) | 2040 | LHD2 | Aggregate | Aggregate | Gasoline | 0.00098 | 0.00200 | 0.03185 | 1,947.71277 | 4,293.98 |
| Riverside (SC) | 2040 | LHD2 | Aggregate | Aggregate | Diesel | 0.01637 | 0.00300 | 0.03185 | 8,143.28597 | 17,952.89 |
| Riverside (SC) | 2040 | LHD2 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.01593 | 1,878.74853 | 4,141.93 |
| Riverside (SC) | 2040 | MCY | Aggregate | Aggregate | Gasoline | 0.00202 | 0.00100 | 0.00420 | 949.82711 | 2,094.01 |
| Riverside (SC) | 2040 | MCY | Aggregate | Aggregate | Gasoline | 0.00057 | 0.00200 | 0.00292 | 36,458.67013 | 80,377.67 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Diesel | 0.00172 | 0.00200 | 0.00294 | 500.74163 | 1,103.95 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Electricity | 0.00000 | 0.00200 | 0.00154 | 891.64285 | 1,965.74 |
| Riverside (SC) | 2040 | MDV | Aggregate | Aggregate | Plug-in Hybrid | 0.00021 | 0.00200 | 0.00138 | 654.69809 | 1,443.36 |
| Riverside (SC) | 2040 | MH | Aggregate | Aggregate | Gasoline | 0.00088 | 0.00300 | 0.01477 | 365.32438 | 0.80540 |
| Riverside (SC) | 2040 | MH | Aggregate | Aggregate | Diesel | 0.06728 | 0.00400 | 0.01475 | 998.12395 | 2,200.49 |
| Riverside (SC) | 2040 | Motor Coach | Aggregate | Aggregate | Diesel | 0.01812 | 0.00300 | 0.02960 | 287.85238 | 0.63461 |
| Riverside (SC) | 2040 | OBUS | Aggregate | Aggregate | Gasoline | 0.00084 | 0.00300 | 0.01474 | 104.06826 | 0.22943 |
| Riverside (SC) | 2040 | OBUS | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00737 | 47.28813 | 0.10425 |
| Riverside (SC) | 2040 | PTO | Aggregate | Aggregate | Diesel | 0.00391 | 0.00000 | 0.00000 | 135.52021 | 0.29877 |
| Riverside (SC) | 2040 | PTO | Aggregate | Aggregate | Electricity | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Gasoline | 0.00120 | 0.00200 | 0.01640 | 202.66985 | 0.44681 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Diesel | 0.00942 | 0.00300 | 0.01640 | 114.08899 | 0.25152 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Electricity | 0.00000 | 0.00279 | 0.00820 | 92.99580 | 0.20502 |
| Riverside (SC) | 2040 | SBUS | Aggregate | Aggregate | Natural Gas | 0.00412 | 0.00300 | 0.01640 | 246.49981 | 0.54344 |
| Riverside (SC) | 2040 | T6 CAIRP Class 4 | Aggregate | Aggregate | Diesel | 0.00464 | 0.00300 | 0.01473 | 4,696.73 | 0.01016 |
| Riverside (SC) | 2040 | T6 CAIRP Class 4 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00736 | 2,391.4 | 0.00509 |
| Riverside (SC) | 2040 | T6 CAIRP Class 5 | Aggregate | Aggregate | Diesel | 0.00462 | 0.00300 | 0.01473 | 6,344.25 | 0.01399 |
| Riverside (SC) | 2040 | T6 CAIRP Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00736 | 3,154.40 | 0.00695 |
| Riverside (SC) | 2040 | T6 CAIRP Class 6 | Aggregate | Aggregate | Diesel | 0.00458 | 0.00300 | 0.01473 | 16,333.64 | 0.03601 |
| Riverside (SC) | 2040 | T6 CAIRP Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00736 | 8,342.59 | 0.01830 |
| Riverside (SC) | 2040 | T6 CAIRP Class 7 | Aggregate | Aggregate | Diesel | 0.00479 | 0.00300 | 0.01473 | 168.68063 | 0.37188 |
| Riverside (SC) | 2040 | T6 CAIRP Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00736 | 22,249.26 | 0.04905 |
| Riverside (SC) | 2040 | T6 CAIRP Class 7 | Aggregate | Aggregate | Natural Gas | 0.00094 | 0.00300 | 0.01473 | 0.09258 | 0.00020 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Diesel | 0.00187 | 0.00300 | 0.01480 | 286.42325 | 0.63146 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00740 | 97.63497 | 0.21325 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 4 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01480 | 1,693.46 | 0.00373 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Diesel | 0.00451 | 0.00300 | 0.01480 | 269.89364 | 0.59501 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00740 | 93.49383 | 0.20612 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 5 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01480 | 1,569.00 | 0.00345 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Diesel | 0.00465 | 0.00300 | 0.01480 | 784.93068 | 1,730.48 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00740 | 270.09492 | 0.59546 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 6 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01480 | 4,640.07 | 0.01023 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Diesel | 0.00657 | 0.00300 | 0.01480 | 240.41679 | 0.53003 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00740 | 42,425.2 | 0.09401 |
| Riverside (SC) | 2040 | T6 Instate Delivery Class 7 | Aggregate | Aggregate | Natural Gas | 0.00074 | 0.00300 | 0.01480 | 4,735.10 | 0.01044 |
| Riverside (SC) | 2040 | T6 Instate Other Class 4 | Aggregate | Aggregate | Diesel | 0.00466 | 0.00300 | 0.01479 | 1,168.98006 | 2,577.16 |
| Riverside (SC) | 2040 | T6 Instate Other Class 4 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00739 | 426.02965 | 0.93924 |
| Riverside (SC) | 2040 | T6 Instate Other Class 4 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01479 | 7,088.96 | 0.01563 |
| Riverside (SC) | 2040 | T6 Instate Other Class 5 | Aggregate | Aggregate | Diesel | 0.00447 | 0.00300 | 0.01479 | 2,931.28663 | 6,462.28 |
| Riverside (SC) | 2040 | T6 Instate Other Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00739 | 1,076.58798 | 2,373.47 |
| Riverside (SC) | 2040 | T6 Instate Other Class 5 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01479 | 17,459.83 | 0.03849 |
| Riverside (SC) | 2040 | T6 Instate Other Class 6 | Aggregate | Aggregate | Diesel | 0.00458 | 0.00300 | 0.01479 | 2,062.35892 | 4,547.63 |
| Riverside (SC) | 2040 | T6 Instate Other Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00739 | 752.02454 | 1,657.93 |
| Riverside (SC) | 2040 | T6 Instate Other Class 6 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01479 | 12,423.88 | 0.02721 |
| Riverside (SC) | 2040 | T6 Instate Other Class 7 | Aggregate | Aggregate | Diesel | 0.00592 | 0.00300 | 0.01479 | 1,325.41070 | 2,922.03 |
| Riverside (SC) | 2040 | T6 Instate Other Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00739 | 321.81412 | 0.70948 |
| Riverside (SC) | 2040 | T6 Instate Other Class 7 | Aggregate | Aggregate | Natural Gas | 0.00081 | 0.00300 | 0.01479 | 26,403.19 | 0.05821 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Diesel | 0.00474 | 0.00300 | 0.01479 | 14,979.62 | 0.03302 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00739 | 5,956.93 | 0.01313 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 6 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01479 | 0.08862 | 0.00020 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Diesel | 0.00587 | 0.00300 | 0.01479 | 745.04829 | 1,642.55 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00739 | 637.4025 | 0.14052 |
| Riverside (SC) | 2040 | T6 Instate Tractor Class 7 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01479 | 14,594.88 | 0.03218 |
| Riverside (SC) | 2040 | T6 OOS Class 4 | Aggregate | Aggregate | Diesel | 0.00490 | 0.00300 | 0.01473 | 5,597.97 | 0.01234 |
| Riverside (SC) | 2040 | T6 OOS Class 4 | Aggregate | Aggregate | Diesel | 0.00473 | 0.00300 | 0.01473 | 7,621.53 | 0.01680 |
| Riverside (SC) | 2040 | T6 OOS Class 4 | Aggregate | Aggregate | Diesel | 0.00473 | 0.00300 | 0.01473 | 19,913.78 | 0.04390 |
| Riverside (SC) | 2040 | T6 OOS Class 7 | Aggregate | Aggregate | Diesel | 0.00487 | 0.00300 | 0.01473 | 145.66659 | 0.32114 |
| Riverside (SC) | 2040 | T6 Public Class 4 | Aggregate | Aggregate | Diesel | 0.00678 | 0.00300 | 0.01475 | 43,656.21 | 0.09625 |
| Riverside (SC) | 2040 | T6 Public Class 4 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00738 | 12,455.89 | 0.02746 |
| Riverside (SC) | 2040 | T6 Public Class 4 | Aggregate | Aggregate | Natural Gas | 0.00095 | 0.00300 | 0.01475 | 5,852.81 | 0.01290 |
| Riverside (SC) | 2040 | T6 Public Class 5 | Aggregate | Aggregate | Diesel | 0.00659 | 0.00300 | 0.01475 | 77,537.02 | 0.17094 |
| Riverside (SC) | 2040 | T6 Public Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00738 | 22,467.69 | 0.04953 |
| Riverside (SC) | 2040 | T6 Public Class 5 | Aggregate | Aggregate | Natural Gas | 0.00086 | 0.00300 | 0.01475 | 12,650.36 | 0.02789 |
| Riverside (SC) | 2040 | T6 Public Class 6 | Aggregate | Aggregate | Diesel | 0.00598 | 0.00300 | 0.01475 | 99,314.31 | 0.21895 |
| Riverside (SC) | 2040 | T6 Public Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00738 | 29,049.56 | 0.06414 |
| Riverside (SC) | 2040 | T6 Public Class 6 | Aggregate | Aggregate | Natural Gas | 0.00091 | 0.00300 | 0.01475 | 14,964.42 | 0.03269 |
| Riverside (SC) | 2040 | T6 Public Class 7 | Aggregate | Aggregate | Diesel | 0.00548 | 0.00300 | 0.01475 | 214,238.75 | 0.47232 |
| Riverside (SC) | 2040 | T6 Public Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00738 | 57,399.36 | 0.12641 |
| Riverside (SC) | 2040 | T6 Public Class 7 | Aggregate | Aggregate | Natural Gas | 0.00094 | 0.00300 | 0.01475 | 32,967.84 | 0.07208 |
| Riverside (SC) | 2040 | T6 Utility Class 5 | Aggregate | Aggregate | Diesel | 0.00377 | 0.00300 | 0.01475 | 87,254.12 | 0.19236 |
| Riverside (SC) | 2040 | T6 Utility Class 5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00738 | 49,514.46 | 0.10922 |
| Riverside (SC) | 2040 | T6 Utility Class 5 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01475 | 0.43384 | 0.00096 |
| Riverside (SC) | 2040 | T6 Utility Class 6 | Aggregate | Aggregate | Diesel | 0.00373 | 0.00300 | 0.01475 | 16,457.77 | 0.03628 |
| Riverside (SC) | 2040 | T6 Utility Class 6 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00738 | 8,675.12 | 0.01913 |
| Riverside (SC) | 2040 | T6 Utility Class 6 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01475 | 0.06230 | 0.00018 |
| Riverside (SC) | 2040 | T6 Utility Class 7 | Aggregate | Aggregate | Diesel | 0.00370 | 0.00300 | 0.01475 | 22,939.85 | 0.04983 |
| Riverside (SC) | 2040 | T6 Utility Class 7 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00738 | 12,466.07 | 0.02748 |
| Riverside (SC) | 2040 | T6 Utility Class 7 | Aggregate | Aggregate | Natural Gas | 0.00097 | 0.00300 | 0.01475 | 0.11038 | 0.00024 |
| Riverside (SC) | 2040 | T6T5 | Aggregate | Aggregate | Gasoline | 0.00094 | 0.00300 | 0.01477 | 603.18502 | 1,329.80 |
| Riverside (SC) | 2040 | T6T5 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00300 | 0.00739 | 209.98069 | 0.45922 |
| Riverside (SC) | 2040 | T7 CAIRP Class 8 | Aggregate | Aggregate | Diesel | 0.02803 | 0.00900 | 0.02841 | 30,672.67548 | 67,621.73 |
| Riverside (SC) | 2040 | T7 CAIRP Class 8 | Aggregate | Aggregate | Electricity | 0.00000 | 0.00900 | 0.01425 | 2,972.29678 | 6,528.00</ |

NATURAL GAS - EXISTING (2018)

| | | | |
|----------------------------|--------------------------|-----------------------|--|
| Baseline Residential Usage | | | |
| Single Family | Daily | | |
| | 19,172,064.00 Therms/yr | 52,526.20 Therms/day | |
| | 1,916,748,187.67 kBTU/yr | 5,251,364.90 kBTU/day | |
| Multi-Family | | | |
| | 2,762,703.00 Therms/yr | 7,569.05 Therms/day | |
| | 276,204,271.40 kBTU/yr | 756,724.03 kBTU/day | |
| Baseline Commercial Usage | | | |
| | 5,885,682.00 Therms/yr | 16,125.16 Therms/day | |
| | 588,427,532.20 kBTU/yr | 1,612,130.23 kBTU/day | |
| Baseline Industrial Usage | | | |
| | 41,302.00 Therms/yr | 113.16 Therms/day | |
| | 4,129,212.88 kBTU/yr | 11,312.91 kBTU/day | |
| Conversion Units | | | |
| | 1000 BTU/kBTU | | |
| | 1000 kBTU/MMBTU | | |
| | 99976.1 BTU/Therm | | |
| | 99.9761 kBTU/Therm | | |
| | 0.0999761 MMBTU/Therm | | |

AP-42 Emission Factors

| | lbs/10 ⁶ scf | lbs/MMBTU | lbs/kBTU |
|-------------------|-------------------------|-------------|------------|
| ROG | 11 | 0.010784314 | 0.00001078 |
| NOx - Residential | 100 | 0.098039216 | 0.00009804 |
| NOx - Commercial | 94 | 0.092156863 | 0.00009216 |
| NOx - Industrial | 100 | 0.098039216 | 0.00009804 |
| CO - Residential | 84 | 0.082352941 | 0.00008235 |
| CO - Commercial | 40 | 0.039215686 | 0.00003922 |
| CO - Industrial | 84 | 0.082352941 | 0.00008235 |
| SOx | 0.6 | 0.000588235 | 0.0000059 |
| PM10 | 7.6 | 0.00745098 | 0.00000745 |
| PM2.5 | 7.6 | 0.00745098 | 0.00000745 |

| | Emissions (lbs/day) | | | | | |
|--------------|---------------------|-----------------|-----------------|---------------|----------------|----------------|
| | ROG | NOx | CO | SOx | PM10 | PM2.5 |
| Residential | 64.7931 | 589.0283 | 494.7838 | 3.5342 | 44.7662 | 44.7662 |
| Commercial | 17.3857 | 148.5689 | 63.2208 | 0.9483 | 12.0120 | 12.0120 |
| Industrial | 0.1220 | 1.1091 | 0.9317 | 0.0067 | 0.0843 | 0.0843 |
| Total | 82.3008 | 738.7063 | 558.9362 | 4.4891 | 56.8624 | 56.8624 |

Table 1.4-1. EMISSION FACTORS FOR NITROGEN OXIDES (NO_x) AND CARBON MONOXIDE (CO) FROM NATURAL GAS COMBUSTION^a

| Combustor Type (MMBtu/hr Heat Input) [SCC] | NO _x ^b | | CO | |
|---|---|------------------------|---|------------------------|
| | Emission Factor (lb/10 ⁶ scf) | Emission Factor Rating | Emission Factor (lb/10 ⁶ scf) | Emission Factor Rating |
| Large Wall-Fired Boilers (>100) [1-01-006-01, 1-02-006-01, 1-03-006-01] | | | | |
| Uncontrolled (Pre-NSPS) ^f | 280 | A | 84 | B |
| Uncontrolled (Post-NSPS) ^f | 190 | A | 84 | B |
| Controlled - Low NO _x burners | 140 | A | 84 | B |
| Controlled - Flue gas recirculation | 100 | D | 84 | B |
| Small Boilers (<100) [1-01-006-02, 1-02-006-02, 1-03-006-02, 1-03-006-03] | | | | |
| Uncontrolled | 100 | B | 84 | B |
| Controlled - Low NO _x burners | 50 | D | 84 | B |
| Controlled - Low NO _x burners/Flue gas recirculation | 32 | C | 84 | B |
| Tangential-Fired Boilers (All Sizes) [1-01-006-04] | | | | |
| Uncontrolled | 170 | A | 24 | C |
| Controlled - Flue gas recirculation | 76 | D | 98 | D |
| Residential Furnaces (<0.3) [No SCC] | | | | |
| Uncontrolled | 94 | B | 40 | B |

^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by 16. Emission factors are based on an average natural gas higher heating value of 1,020 Btu/scf. To convert from lb/10⁶ scf to lb/MMBTU, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. SCC = Source Classification Code. ND = no data. NA = not applicable.
^b Expressed as NO_x. For large and small wall fired boilers with SNCR control, apply a 24 percent reduction to the appropriate NO_x emission factor. For tangential-fired boilers with SNCR control, apply a 13 percent reduction to the appropriate NO_x emission factor.
^c NSPS=New Source Performance Standard as defined in 40 CFR 60 Subparts D and Db. Post-NSPS units are boilers with greater than 250 MMBtu/hr of heat input that commenced construction modification, or reconstruction after August 17, 1971, and units with heat input capacities between 100 and 250 MMBtu/hr that commenced construction modification, or reconstruction after June 19, 1984.

TABLE 1.4-2. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM NATURAL GAS COMBUSTION^a

| Pollutant | Emission Factor (lb/10 ⁶ scf) | Emission Factor Rating |
|--|---|------------------------|
| CO ₂ ^b | 120,000 | A |
| Lead | 0.0005 | D |
| N ₂ O (Uncontrolled) | 2.2 | E |
| N ₂ O (Controlled-low-NO _x burner) | 0.64 | E |
| PM (Total) ^c | 7.6 | D |
| PM (Condensable) ^c | 5.7 | D |
| PM (Filterable) ^c | 1.9 | B |
| SO ₂ ^d | 0.6 | A |
| TOC | 11 | B |
| Methane | 2.3 | B |
| VOC | 5.5 | C |

^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by 16. To convert from lb/10⁶ scf to lb/MMBTU, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds. VOC = Volatile Organic Compounds.
^b Based on approximately 100% conversion of fuel carbon to CO₂. CO₂[lb/10⁶ scf] = (3.67) (CON) (C)(D), where CON = fractional conversion of fuel carbon to CO₂, C = carbon content of fuel by weight (0.76), and D = density of fuel, 4.2x10⁴ lb/10⁶ scf.
^c All PM (total, condensable, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate PM₁₀, PM_{2.5} or PM₁ emissions. Total PM is the sum of the filterable PM and condensable PM. Condensable PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.
^d Based on 100% conversion of fuel sulfur to SO₂. Assumes sulfur content is natural gas of 2,000 grains/10⁶ scf. The SO₂ emission factor in this table can be converted to other natural gas sulfur contents by multiplying the SO₂ emission factor by the ratio of the site-specific sulfur content (grains/10⁶ scf) to 2,000 grains/10⁶ scf.

Source: <https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf>

NATURAL GAS - GPU 2040

| | |
|--------------------------|-----------------------|
| 2040 Residential Usage | Daily |
| 29,999,791.79 Therms/yr | 82,191.21 Therms/day |
| 2,999,262,183.91 kBTU/yr | 8,217,156.67 kBTU/day |
| 2040 Commercial Usage | |
| 9,376,636.67 Therms/yr | 25,689.42 Therms/day |
| 937,439,565.30 kBTU/yr | 2,568,327.58 kBTU/day |
| 2040 Industrial Usage | |
| 305,383.53 Therms/yr | 836.67 Therms/day |
| 30,531,054.19 kBTU/yr | 83,646.72 kBTU/day |

AP-42 Emission Factors

| | lbs/10 ⁶ scf | lbs/MMBTU | lbs/kBTU |
|-------------------|-------------------------|-------------|------------|
| ROG | 11 | 0.010784314 | 0.00001078 |
| NOx - Residential | 100 | 0.098039216 | 0.00009804 |
| NOx - Commercial | 94 | 0.092156863 | 0.00009216 |
| NOx - Industrial | 100 | 0.098039216 | 0.00009804 |
| CO - Residential | 84 | 0.082352941 | 0.00008235 |
| CO - Commercial | 40 | 0.039215686 | 0.00003922 |
| CO - Industrial | 84 | 0.082352941 | 0.00008235 |
| SOx | 0.6 | 0.000588235 | 0.0000059 |
| PM10 | 7.6 | 0.00745098 | 0.0000745 |
| PM2.5 | 7.6 | 0.00745098 | 0.0000745 |

Conversion Units

| |
|-----------------------|
| 1000 BTU/kBTU |
| 1000 kBTU/MMBTU |
| 99976.1 BTU/Therm |
| 99.9761 kBTU/Therm |
| 0.0999761 MMBTU/Therm |

| | Emissions (lbs/day) | | | | | |
|--------------|---------------------|-------------------|-----------------|---------------|----------------|----------------|
| | ROG | NOx | CO | SOx | PM10 | PM2.5 |
| Residential | 88.6164 | 805.6036 | 676.7070 | 4.8336 | 61.2259 | 61.2259 |
| Commercial | 27.6977 | 236.6890 | 100.7187 | 1.5108 | 19.1366 | 19.1366 |
| Industrial | 0.9021 | 8.2007 | 6.8886 | 0.0492 | 0.6233 | 0.6233 |
| Total | 117.2161 | 1,050.4933 | 784.3143 | 6.3936 | 80.9857 | 80.9857 |

NATURAL GAS - ADOPTED GP 2040

| | |
|--------------------------|-----------------------|
| 2040 Residential Usage | Daily |
| 29,732,576.71 Therms/yr | 81,459.11 Therms/day |
| 2,972,547,062.86 kBTU/yr | 8,143,964.56 kBTU/day |
| 2040 Commercial Usage | |
| 10,784,917.55 Therms/yr | 29,547.72 Therms/day |
| 1,078,233,995.36 kBTU/yr | 2,954,065.74 kBTU/day |
| 2040 Industrial Usage | |
| 410,715.60 Therms/yr | 1,125.25 Therms/day |
| 41,061,743.79 kBTU/yr | 112,497.93 kBTU/day |

AP-42 Emission Factors

| | lbs/10 ⁶ scf | lbs/MMBTU | lbs/kBTU |
|-------------------|-------------------------|-------------|------------|
| ROG | 11 | 0.010784314 | 0.00001078 |
| NOx - Residential | 100 | 0.098039216 | 0.00009804 |
| NOx - Commercial | 94 | 0.092156863 | 0.00009216 |
| NOx - Industrial | 100 | 0.098039216 | 0.00009804 |
| CO - Residential | 84 | 0.082352941 | 0.00008235 |
| CO - Commercial | 40 | 0.039215686 | 0.00003922 |
| CO - Industrial | 84 | 0.082352941 | 0.00008235 |
| SOx | 0.6 | 0.000588235 | 0.0000059 |
| PM10 | 7.6 | 0.00745098 | 0.0000745 |
| PM2.5 | 7.6 | 0.00745098 | 0.0000745 |

Conversion Units

| |
|-----------------------|
| 1000 BTU/kBTU |
| 1000 kBTU/MMBTU |
| 99976.1 BTU/Therm |
| 99.9761 kBTU/Therm |
| 0.0999761 MMBTU/Therm |

| | Emissions (lbs/day) | | | | | |
|--------------|---------------------|-------------------|-----------------|---------------|----------------|----------------|
| | ROG | NOx | CO | SOx | PM10 | PM2.5 |
| Residential | 87.8271 | 798.4279 | 670.6794 | 4.7906 | 60.6805 | 60.6805 |
| Commercial | 31.8576 | 272.2374 | 115.8457 | 1.7377 | 22.0107 | 22.0107 |
| Industrial | 1.2132 | 11.0292 | 9.2645 | 0.0662 | 0.8382 | 0.8382 |
| Total | 120.8979 | 1,081.6945 | 795.7897 | 6.5944 | 83.5294 | 83.5294 |

2018 Area Sources

AREA SOURCES - EXISTING (2018)

| Area Source | ROG | NOx | Emissions (lbs/day) | | | PM10 | PM2.5 |
|------------------------|-------------------|----------------|---------------------|---------------|----------------|----------------|-------|
| | | | CO | SOx | | | |
| Architectural Coatings | 203.0987 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Consumer Products | 2,175.8228 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Landscaping | 141.8804 | 53.3725 | 4,598.7555 | 0.2412 | 25.0959 | 25.0959 | |
| Total | 2,520.8019 | 53.3725 | 4,598.7555 | 0.2412 | 25.0959 | 25.0959 | |

2040 GPU Area Sources

AREA SOURCES - GPU 2040

| Area Source | ROG | NOx | Emissions (lbs/day) | | | |
|------------------------|-------------------|----------------|---------------------|---------------|----------------|----------------|
| | | | CO | SOx | PM10 | PM2.5 |
| Architectural Coatings | 377.3241 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 3,707.9666 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 190.7328 | 73.4258 | 6,362.8211 | 0.3376 | 35.4269 | 35.4269 |
| Total | 4,276.0235 | 73.4258 | 6,362.8211 | 0.3376 | 35.4269 | 35.4269 |

AREA SOURCES - ADOPTED GP 2040

| Area Source | ROG | NOx | Emissions (lbs/day) | | | PM10 | PM2.5 |
|------------------------|-------------------|----------------|---------------------|---------------|----------------|----------------|-------|
| | | | CO | SOx | | | |
| Architectural Coatings | 449.0149 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Consumer Products | 4,329.1427 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Landscaping | 190.9342 | 73.4456 | 6,365.0222 | 0.3378 | 35.4347 | 35.4347 | |
| Total | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | 35.4347 | 35.4347 | |

CalEEMod Output – Existing Year 2018 Land Uses

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

9504 Moreno Valley GPU - Existing Conditions 2018
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 12,000.29 | 1000sqft | 275.49 | 12,000,290.00 | 0 |
| General Light Industry | 5,824.15 | 1000sqft | 133.70 | 5,824,150.00 | 0 |
| Apartments Mid Rise | 9,406.00 | Dwelling Unit | 247.53 | 9,406,000.00 | 26901 |
| Single Family Housing | 45,922.00 | Dwelling Unit | 14,909.74 | 82,659,600.00 | 131337 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2018 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Existing land uses

Construction Phase - Construction emissions analyzed separately

Off-road Equipment -

Vehicle Trips - Mobile emissions calculated separately

Woodstoves - No wood stoves or fireplaces modeled

Energy Use - Energy calculated separately

| Table Name | Column Name | Default Value | New Value |
|----------------------|---------------|---------------|-----------|
| tblConstructionPhase | NumDays | 155,000.00 | 1.00 |
| tblEnergyUse | LightingElect | 741.44 | 0.00 |
| tblEnergyUse | LightingElect | 3.62 | 0.00 |
| tblEnergyUse | LightingElect | 4.45 | 0.00 |
| tblEnergyUse | LightingElect | 1,608.84 | 0.00 |
| tblEnergyUse | NT24E | 2,553.86 | 0.00 |
| tblEnergyUse | NT24E | 5.02 | 0.00 |
| tblEnergyUse | NT24E | 2.79 | 0.00 |
| tblEnergyUse | NT24E | 5,089.81 | 0.00 |
| tblEnergyUse | NT24NG | 1,779.14 | 0.00 |
| tblEnergyUse | NT24NG | 17.13 | 0.00 |
| tblEnergyUse | NT24NG | 5,950.14 | 0.00 |
| tblEnergyUse | T24E | 696.81 | 0.00 |
| tblEnergyUse | T24E | 2.89 | 0.00 |
| tblEnergyUse | T24E | 4.03 | 0.00 |
| tblEnergyUse | T24E | 1,269.07 | 0.00 |
| tblEnergyUse | T24NG | 10,983.45 | 0.00 |
| tblEnergyUse | T24NG | 16.76 | 0.00 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

| | | | |
|-----------------|-------------------|---------------|---------------|
| tblEnergyUse | T24NG | 4.20 | 0.00 |
| tblEnergyUse | T24NG | 30,907.53 | 0.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 7,995.10 | 0.00 |
| tblFireplaces | NumberGas | 39,033.70 | 0.00 |
| tblFireplaces | NumberNoFireplace | 940.60 | 9,406.00 |
| tblFireplaces | NumberNoFireplace | 4,592.20 | 45,922.00 |
| tblFireplaces | NumberWood | 470.30 | 0.00 |
| tblFireplaces | NumberWood | 2,296.10 | 0.00 |
| tblLandUse | LandUseSquareFeet | 12,000,300.00 | 12,000,290.00 |
| tblVehicleTrips | ST_TR | 6.39 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | ST_TR | 2.46 | 0.00 |
| tblVehicleTrips | ST_TR | 9.91 | 0.00 |
| tblVehicleTrips | SU_TR | 5.86 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | SU_TR | 8.62 | 0.00 |
| tblVehicleTrips | WD_TR | 6.65 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblVehicleTrips | WD_TR | 11.03 | 0.00 |
| tblVehicleTrips | WD_TR | 9.52 | 0.00 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

| | | | |
|---------------|--------------------|----------|------|
| tblWoodstoves | NumberCatalytic | 470.30 | 0.00 |
| tblWoodstoves | NumberCatalytic | 2,296.10 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 470.30 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2,296.10 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

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 | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | 0.0000 | 25.0959 | 25.0959 | 0.0000 | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|----------------|-------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | 0.0000 | 25.0959 | 25.0959 | 0.0000 | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | 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 | Building Construction | Building Construction | 1/1/2021 | 1/1/2021 | 5 | 1 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|------------------------|--------|-------------|-------------|-------------|
| | | | | | |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | | | 8,836.00 | 0.00 | 14.70 | 6.90 | | | | |

3.1 Mitigation Measures Construction

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

3.2 Building Construction - 2021

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 |
| Vendor | | | | | 40.3035 | 0.0000 | 40.3035 | 9.8927 | 0.0000 | 9.8927 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 40.3035 | 0.0000 | 40.3035 | 9.8927 | 0.0000 | 9.8927 | | | 0.0000 | | | 0.0000 |

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 |
| Vendor | | | | | 40.3035 | 0.0000 | 40.3035 | 9.8927 | 0.0000 | 9.8927 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 40.3035 | 0.0000 | 40.3035 | 9.8927 | 0.0000 | 9.8927 | | | 0.0000 | | | 0.0000 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | | |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Light Industry | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.527920 | 0.040740 | 0.182967 | 0.130733 | 0.020108 | 0.005812 | 0.016781 | 0.065303 | 0.001324 | 0.001284 | 0.004728 | 0.000989 | 0.001311 |
| General Light Industry | 0.527920 | 0.040740 | 0.182967 | 0.130733 | 0.020108 | 0.005812 | 0.016781 | 0.065303 | 0.001324 | 0.001284 | 0.004728 | 0.000989 | 0.001311 |
| General Office Building | 0.527920 | 0.040740 | 0.182967 | 0.130733 | 0.020108 | 0.005812 | 0.016781 | 0.065303 | 0.001324 | 0.001284 | 0.004728 | 0.000989 | 0.001311 |
| Single Family Housing | 0.527920 | 0.040740 | 0.182967 | 0.130733 | 0.020108 | 0.005812 | 0.016781 | 0.065303 | 0.001324 | 0.001284 | 0.004728 | 0.000989 | 0.001311 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 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 |
| Single Family Housing | 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 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 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 |
| Single Family Housing | 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 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |
| Unmitigated | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

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 | 203.0987 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,175.8228 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 141.8804 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | | 8,223.0026 | 8,223.0026 | 8.1560 | | 8,426.9035 |
| Total | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

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 | 203.0987 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,175.8228 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 141.8804 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | | 8,223.0026 | 8,223.0026 | 8.1560 | | 8,426.9035 |
| Total | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Winter

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

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

9504 Moreno Valley GPU - Existing Conditions 2018
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 12,000.29 | 1000sqft | 275.49 | 12,000,290.00 | 0 |
| General Light Industry | 5,824.15 | 1000sqft | 133.70 | 5,824,150.00 | 0 |
| Apartments Mid Rise | 9,406.00 | Dwelling Unit | 247.53 | 9,406,000.00 | 26901 |
| Single Family Housing | 45,922.00 | Dwelling Unit | 14,909.74 | 82,659,600.00 | 131337 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2018 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 702.44 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Existing land uses

Construction Phase - Construction emissions analyzed separately

Off-road Equipment -

Vehicle Trips - Mobile emissions calculated separately

Woodstoves - No wood stoves or fireplaces modeled

Energy Use - Energy calculated separately

| Table Name | Column Name | Default Value | New Value |
|----------------------|---------------|---------------|-----------|
| tblConstructionPhase | NumDays | 155,000.00 | 1.00 |
| tblEnergyUse | LightingElect | 741.44 | 0.00 |
| tblEnergyUse | LightingElect | 3.62 | 0.00 |
| tblEnergyUse | LightingElect | 4.45 | 0.00 |
| tblEnergyUse | LightingElect | 1,608.84 | 0.00 |
| tblEnergyUse | NT24E | 2,553.86 | 0.00 |
| tblEnergyUse | NT24E | 5.02 | 0.00 |
| tblEnergyUse | NT24E | 2.79 | 0.00 |
| tblEnergyUse | NT24E | 5,089.81 | 0.00 |
| tblEnergyUse | NT24NG | 1,779.14 | 0.00 |
| tblEnergyUse | NT24NG | 17.13 | 0.00 |
| tblEnergyUse | NT24NG | 5,950.14 | 0.00 |
| tblEnergyUse | T24E | 696.81 | 0.00 |
| tblEnergyUse | T24E | 2.89 | 0.00 |
| tblEnergyUse | T24E | 4.03 | 0.00 |
| tblEnergyUse | T24E | 1,269.07 | 0.00 |
| tblEnergyUse | T24NG | 10,983.45 | 0.00 |
| tblEnergyUse | T24NG | 16.76 | 0.00 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

| | | | |
|-----------------|-------------------|---------------|---------------|
| tblEnergyUse | T24NG | 4.20 | 0.00 |
| tblEnergyUse | T24NG | 30,907.53 | 0.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 7,995.10 | 0.00 |
| tblFireplaces | NumberGas | 39,033.70 | 0.00 |
| tblFireplaces | NumberNoFireplace | 940.60 | 9,406.00 |
| tblFireplaces | NumberNoFireplace | 4,592.20 | 45,922.00 |
| tblFireplaces | NumberWood | 470.30 | 0.00 |
| tblFireplaces | NumberWood | 2,296.10 | 0.00 |
| tblLandUse | LandUseSquareFeet | 12,000,300.00 | 12,000,290.00 |
| tblVehicleTrips | ST_TR | 6.39 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | ST_TR | 2.46 | 0.00 |
| tblVehicleTrips | ST_TR | 9.91 | 0.00 |
| tblVehicleTrips | SU_TR | 5.86 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | SU_TR | 8.62 | 0.00 |
| tblVehicleTrips | WD_TR | 6.65 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblVehicleTrips | WD_TR | 11.03 | 0.00 |
| tblVehicleTrips | WD_TR | 9.52 | 0.00 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

| | | | |
|---------------|--------------------|----------|------|
| tblWoodstoves | NumberCatalytic | 470.30 | 0.00 |
| tblWoodstoves | NumberCatalytic | 2,296.10 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 470.30 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2,296.10 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

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 | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | 0.0000 | 25.0959 | 25.0959 | 0.0000 | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|----------------|-------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | 0.0000 | 25.0959 | 25.0959 | 0.0000 | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | 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 | Building Construction | Building Construction | 1/1/2021 | 1/1/2021 | 5 | 1 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|------------------------|--------|-------------|-------------|-------------|
| | | | | | |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | | | 8,836.00 | 0.00 | 14.70 | 6.90 | | | | |

3.1 Mitigation Measures Construction

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

3.2 Building Construction - 2021

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 |
| Vendor | | | | | 40.3035 | 0.0000 | 40.3035 | 9.8927 | 0.0000 | 9.8927 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 40.3035 | 0.0000 | 40.3035 | 9.8927 | 0.0000 | 9.8927 | | | 0.0000 | | | 0.0000 |

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 |
| Vendor | | | | | 40.3035 | 0.0000 | 40.3035 | 9.8927 | 0.0000 | 9.8927 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 40.3035 | 0.0000 | 40.3035 | 9.8927 | 0.0000 | 9.8927 | | | 0.0000 | | | 0.0000 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | | |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Light Industry | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.527920 | 0.040740 | 0.182967 | 0.130733 | 0.020108 | 0.005812 | 0.016781 | 0.065303 | 0.001324 | 0.001284 | 0.004728 | 0.000989 | 0.001311 |
| General Light Industry | 0.527920 | 0.040740 | 0.182967 | 0.130733 | 0.020108 | 0.005812 | 0.016781 | 0.065303 | 0.001324 | 0.001284 | 0.004728 | 0.000989 | 0.001311 |
| General Office Building | 0.527920 | 0.040740 | 0.182967 | 0.130733 | 0.020108 | 0.005812 | 0.016781 | 0.065303 | 0.001324 | 0.001284 | 0.004728 | 0.000989 | 0.001311 |
| Single Family Housing | 0.527920 | 0.040740 | 0.182967 | 0.130733 | 0.020108 | 0.005812 | 0.016781 | 0.065303 | 0.001324 | 0.001284 | 0.004728 | 0.000989 | 0.001311 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 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 |
| Single Family Housing | 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 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 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 |
| Single Family Housing | 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 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |
| Unmitigated | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

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 | 203.0987 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,175.8228 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 141.8804 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | | 8,223.0026 | 8,223.0026 | 8.1560 | | 8,426.9035 |
| Total | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

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 | 203.0987 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,175.8228 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 141.8804 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | | 8,223.0026 | 8,223.0026 | 8.1560 | | 8,426.9035 |
| Total | 2,520.8018 | 53.3725 | 4,598.7555 | 0.2412 | | 25.0959 | 25.0959 | | 25.0959 | 25.0959 | 0.0000 | 8,223.0026 | 8,223.0026 | 8.1560 | 0.0000 | 8,426.9035 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

9504 Moreno Valley GPU - Existing Conditions 2018 - Riverside-South Coast County, Summer

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

CalEEMod Output – 2006 General Plan Year 2040

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

9504 Moreno Valley GPU - Adopted General Plan 2040
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 18,238.37 | 1000sqft | 418.70 | 18,238,370.00 | 0 |
| General Light Industry | 71,645.20 | 1000sqft | 1,644.75 | 71,645,200.00 | 0 |
| Apartments Mid Rise | 13,155.00 | Dwelling Unit | 346.18 | 13,155,000.00 | 37623 |
| Single Family Housing | 64,225.00 | Dwelling Unit | 20,852.27 | 115,605,000.00 | 183684 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2040 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Adopted General Plan land uses

Construction Phase - Construction emissions analyzed separately

Off-road Equipment -

Vehicle Trips - Mobile emissions calculated separately

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood stoves or fireplaces modeled

Energy Use - Energy calculated separately

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------------|---------------|---------------|
| tblConstructionPhase | NumDays | 155,000.00 | 1.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 11,181.75 | 0.00 |
| tblFireplaces | NumberGas | 54,591.25 | 0.00 |
| tblFireplaces | NumberNoFireplace | 1,315.50 | 13,155.00 |
| tblFireplaces | NumberNoFireplace | 6,422.50 | 64,225.00 |
| tblFireplaces | NumberWood | 657.75 | 0.00 |
| tblFireplaces | NumberWood | 3,211.25 | 0.00 |
| tblLandUse | LandUseSquareFeet | 18,238,400.00 | 18,238,370.00 |
| tblVehicleTrips | HO_TL | 8.70 | 0.00 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

| | | | |
|-----------------|--------------------|----------|------|
| tblVehicleTrips | HO_TL | 8.70 | 0.00 |
| tblVehicleTrips | HS_TL | 5.90 | 0.00 |
| tblVehicleTrips | HS_TL | 5.90 | 0.00 |
| tblVehicleTrips | HW_TL | 14.70 | 0.00 |
| tblVehicleTrips | HW_TL | 14.70 | 0.00 |
| tblVehicleTrips | ST_TR | 6.39 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | ST_TR | 2.46 | 0.00 |
| tblVehicleTrips | ST_TR | 9.91 | 0.00 |
| tblVehicleTrips | SU_TR | 5.86 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | SU_TR | 8.62 | 0.00 |
| tblVehicleTrips | WD_TR | 6.65 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblVehicleTrips | WD_TR | 11.03 | 0.00 |
| tblVehicleTrips | WD_TR | 9.52 | 0.00 |
| tblWoodstoves | NumberCatalytic | 657.75 | 0.00 |
| tblWoodstoves | NumberCatalytic | 3,211.25 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 657.75 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 3,211.25 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

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 | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |
| Energy | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 5,117.9961 | 1,386.2654 | 7,202.5033 | 8.4598 | 0.0000 | 138.3140 | 138.3140 | 0.0000 | 138.3140 | 138.3140 | 0.0000 | 1,635,924.8687 | 1,635,924.8687 | 42.1266 | 29.7809 | 1,645,852.7270 |

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 | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |
| Energy | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 5,117.9961 | 1,386.2654 | 7,202.5033 | 8.4598 | 0.0000 | 138.3140 | 138.3140 | 0.0000 | 138.3140 | 138.3140 | 0.0000 | 1,635,924.8687 | 1,635,924.8687 | 42.1266 | 29.7809 | 1,645,852.7270 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | 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 | Building Construction | Building Construction | 1/1/2021 | 1/1/2021 | 5 | 1 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|------------------------|--------|-------------|-------------|-------------|
| | | | | | |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | | | 23,004.00 | 0.00 | 14.70 | 6.90 | | | | |

3.1 Mitigation Measures Construction

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

3.2 Building Construction - 2021

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 |
| Vendor | | | | | 104.9278 | 0.0000 | 104.9278 | 25.7550 | 0.0000 | 25.7550 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 104.9278 | 0.0000 | 104.9278 | 25.7550 | 0.0000 | 25.7550 | | | 0.0000 | | | 0.0000 |

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 |
| Vendor | | | | | 104.9278 | 0.0000 | 104.9278 | 25.7550 | 0.0000 | 25.7550 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 104.9278 | 0.0000 | 104.9278 | 25.7550 | 0.0000 | 25.7550 | | | 0.0000 | | | 0.0000 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | | |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Light Industry | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Single Family Housing | 0.00 | 0.00 | 0.00 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| General Light Industry | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| General Office Building | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| Single Family Housing | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive 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 | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |
| NaturalGas Unmitigated | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|-------------------|-----------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|----------|-----------------------|-----------------------|----------------|----------------|-----------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 459978 | 4.9605 | 42.3901 | 18.0383 | 0.2706 | | 3.4273 | 3.4273 | | 3.4273 | 3.4273 | | 54,115.0271 | 54,115.0271 | 1.0372 | 0.9921 | 54,436.6056 |
| General Light Industry | 6.65221e+006 | 71.7395 | 652.1772 | 547.8289 | 3.9131 | | 49.5655 | 49.5655 | | 49.5655 | 49.5655 | | 782,612.6762 | 782,612.6762 | 15.0001 | 14.3479 | 787,263.3521 |
| General Office Building | 209866 | 2.2633 | 20.5751 | 17.2831 | 0.1235 | | 1.5637 | 1.5637 | | 1.5637 | 1.5637 | | 24,690.1383 | 24,690.1383 | 0.4732 | 0.4527 | 24,836.8594 |
| Single Family Housing | 6.48544e+006 | 69.9410 | 597.6774 | 254.3308 | 3.8150 | | 48.3229 | 48.3229 | | 48.3229 | 48.3229 | | 762,992.3790 | 762,992.3790 | 14.6240 | 13.9882 | 767,526.4612 |
| Total | | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|-------------------|-----------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|----------|-----------------------|-----------------------|----------------|----------------|-----------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 459.978 | 4.9605 | 42.3901 | 18.0383 | 0.2706 | | 3.4273 | 3.4273 | | 3.4273 | 3.4273 | | 54,115.0271 | 54,115.0271 | 1.0372 | 0.9921 | 54,436.6056 |
| General Light Industry | 6652.21 | 71.7395 | 652.1772 | 547.8289 | 3.9131 | | 49.5655 | 49.5655 | | 49.5655 | 49.5655 | | 782,612.6762 | 782,612.6762 | 15.0001 | 14.3479 | 787,263.3521 |
| General Office Building | 209.866 | 2.2633 | 20.5751 | 17.2831 | 0.1235 | | 1.5637 | 1.5637 | | 1.5637 | 1.5637 | | 24,690.1383 | 24,690.1383 | 0.4732 | 0.4527 | 24,836.8594 |
| Single Family Housing | 6485.44 | 69.9410 | 597.6774 | 254.3308 | 3.8150 | | 48.3229 | 48.3229 | | 48.3229 | 48.3229 | | 762,992.3790 | 762,992.3790 | 14.6240 | 13.9882 | 767,526.4612 |
| Total | | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |

6.0 Area Detail

6.1 Mitigation Measures Area

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive 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 | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |
| Unmitigated | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |

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 | 449.0149 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4,329.1427 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 190.9342 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | | 11,514.6482 | 11,514.6482 | 10.9920 | | 11,789.4488 |
| Total | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

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 | 449.0149 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4,329.1427 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 190.9342 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | | 11,514.6482 | 11,514.6482 | 10.9920 | | 11,789.4488 |
| Total | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Winter

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

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

9504 Moreno Valley GPU - Adopted General Plan 2040
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 18,238.37 | 1000sqft | 418.70 | 18,238,370.00 | 0 |
| General Light Industry | 71,645.20 | 1000sqft | 1,644.75 | 71,645,200.00 | 0 |
| Apartments Mid Rise | 13,155.00 | Dwelling Unit | 346.18 | 13,155,000.00 | 37623 |
| Single Family Housing | 64,225.00 | Dwelling Unit | 20,852.27 | 115,605,000.00 | 183684 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2040 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Adopted General Plan land uses

Construction Phase - Construction emissions analyzed separately

Off-road Equipment -

Vehicle Trips - Mobile emissions calculated separately

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood stoves or fireplaces modeled

Energy Use - Energy calculated separately

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------------|---------------|---------------|
| tblConstructionPhase | NumDays | 155,000.00 | 1.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 11,181.75 | 0.00 |
| tblFireplaces | NumberGas | 54,591.25 | 0.00 |
| tblFireplaces | NumberNoFireplace | 1,315.50 | 13,155.00 |
| tblFireplaces | NumberNoFireplace | 6,422.50 | 64,225.00 |
| tblFireplaces | NumberWood | 657.75 | 0.00 |
| tblFireplaces | NumberWood | 3,211.25 | 0.00 |
| tblLandUse | LandUseSquareFeet | 18,238,400.00 | 18,238,370.00 |
| tblVehicleTrips | HO_TL | 8.70 | 0.00 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

| | | | |
|-----------------|--------------------|----------|------|
| tblVehicleTrips | HO_TL | 8.70 | 0.00 |
| tblVehicleTrips | HS_TL | 5.90 | 0.00 |
| tblVehicleTrips | HS_TL | 5.90 | 0.00 |
| tblVehicleTrips | HW_TL | 14.70 | 0.00 |
| tblVehicleTrips | HW_TL | 14.70 | 0.00 |
| tblVehicleTrips | ST_TR | 6.39 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | ST_TR | 2.46 | 0.00 |
| tblVehicleTrips | ST_TR | 9.91 | 0.00 |
| tblVehicleTrips | SU_TR | 5.86 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | SU_TR | 8.62 | 0.00 |
| tblVehicleTrips | WD_TR | 6.65 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblVehicleTrips | WD_TR | 11.03 | 0.00 |
| tblVehicleTrips | WD_TR | 9.52 | 0.00 |
| tblWoodstoves | NumberCatalytic | 657.75 | 0.00 |
| tblWoodstoves | NumberCatalytic | 3,211.25 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 657.75 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 3,211.25 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

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 | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |
| Energy | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 5,117.9961 | 1,386.2654 | 7,202.5033 | 8.4598 | 0.0000 | 138.3140 | 138.3140 | 0.0000 | 138.3140 | 138.3140 | 0.0000 | 1,635,924.8687 | 1,635,924.8687 | 42.1266 | 29.7809 | 1,645,852.7270 |

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 | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |
| Energy | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 5,117.9961 | 1,386.2654 | 7,202.5033 | 8.4598 | 0.0000 | 138.3140 | 138.3140 | 0.0000 | 138.3140 | 138.3140 | 0.0000 | 1,635,924.8687 | 1,635,924.8687 | 42.1266 | 29.7809 | 1,645,852.7270 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | 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 | Building Construction | Building Construction | 1/1/2021 | 1/1/2021 | 5 | 1 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|------------------------|--------|-------------|-------------|-------------|
| | | | | | |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | | | 23,004.00 | 0.00 | 14.70 | 6.90 | | | | |

3.1 Mitigation Measures Construction

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

3.2 Building Construction - 2021

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 |
| Vendor | | | | | 104.9278 | 0.0000 | 104.9278 | 25.7550 | 0.0000 | 25.7550 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 104.9278 | 0.0000 | 104.9278 | 25.7550 | 0.0000 | 25.7550 | | | 0.0000 | | | 0.0000 |

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 |
| Vendor | | | | | 104.9278 | 0.0000 | 104.9278 | 25.7550 | 0.0000 | 25.7550 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 104.9278 | 0.0000 | 104.9278 | 25.7550 | 0.0000 | 25.7550 | | | 0.0000 | | | 0.0000 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | | |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Light Industry | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Single Family Housing | 0.00 | 0.00 | 0.00 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| General Light Industry | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| General Office Building | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| Single Family Housing | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive 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 | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |
| NaturalGas Unmitigated | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|-------------------|-----------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|----------|-----------------------|-----------------------|----------------|----------------|-----------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 459978 | 4.9605 | 42.3901 | 18.0383 | 0.2706 | | 3.4273 | 3.4273 | | 3.4273 | 3.4273 | | 54,115.0271 | 54,115.0271 | 1.0372 | 0.9921 | 54,436.6056 |
| General Light Industry | 6.65221e+006 | 71.7395 | 652.1772 | 547.8289 | 3.9131 | | 49.5655 | 49.5655 | | 49.5655 | 49.5655 | | 782,612.6762 | 782,612.6762 | 15.0001 | 14.3479 | 787,263.3521 |
| General Office Building | 209866 | 2.2633 | 20.5751 | 17.2831 | 0.1235 | | 1.5637 | 1.5637 | | 1.5637 | 1.5637 | | 24,690.1383 | 24,690.1383 | 0.4732 | 0.4527 | 24,836.8594 |
| Single Family Housing | 6.48544e+006 | 69.9410 | 597.6774 | 254.3308 | 3.8150 | | 48.3229 | 48.3229 | | 48.3229 | 48.3229 | | 762,992.3790 | 762,992.3790 | 14.6240 | 13.9882 | 767,526.4612 |
| Total | | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|-------------------|-----------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|----------|-----------------------|-----------------------|----------------|----------------|-----------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 459.978 | 4.9605 | 42.3901 | 18.0383 | 0.2706 | | 3.4273 | 3.4273 | | 3.4273 | 3.4273 | | 54,115.0271 | 54,115.0271 | 1.0372 | 0.9921 | 54,436.6056 |
| General Light Industry | 6652.21 | 71.7395 | 652.1772 | 547.8289 | 3.9131 | | 49.5655 | 49.5655 | | 49.5655 | 49.5655 | | 782,612.6762 | 782,612.6762 | 15.0001 | 14.3479 | 787,263.3521 |
| General Office Building | 209.866 | 2.2633 | 20.5751 | 17.2831 | 0.1235 | | 1.5637 | 1.5637 | | 1.5637 | 1.5637 | | 24,690.1383 | 24,690.1383 | 0.4732 | 0.4527 | 24,836.8594 |
| Single Family Housing | 6485.44 | 69.9410 | 597.6774 | 254.3308 | 3.8150 | | 48.3229 | 48.3229 | | 48.3229 | 48.3229 | | 762,992.3790 | 762,992.3790 | 14.6240 | 13.9882 | 767,526.4612 |
| Total | | 148.9043 | 1,312.8198 | 837.4811 | 8.1221 | | 102.8793 | 102.8793 | | 102.8793 | 102.8793 | | 1,624,410.2205 | 1,624,410.2205 | 31.1345 | 29.7809 | 1,634,063.2783 |

6.0 Area Detail

6.1 Mitigation Measures Area

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive 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 | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |
| Unmitigated | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |

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 | 449.0149 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4,329.1427 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 190.9342 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | | 11,514.6482 | 11,514.6482 | 10.9920 | | 11,789.4488 |
| Total | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

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 | 449.0149 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4,329.1427 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 190.9342 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | | 11,514.6482 | 11,514.6482 | 10.9920 | | 11,789.4488 |
| Total | 4,969.0918 | 73.4456 | 6,365.0222 | 0.3378 | | 35.4347 | 35.4347 | | 35.4347 | 35.4347 | 0.0000 | 11,514.6482 | 11,514.6482 | 10.9920 | 0.0000 | 11,789.4488 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

9504 Moreno Valley GPU - Adopted General Plan 2040 - Riverside-South Coast County, Summer

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

CalEEMod Output – 2021 GPU Year 2040

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

9504 Moreno Valley GPU - GPU 2040
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 16,427.57 | 1000sqft | 377.13 | 16,427,570.00 | 0 |
| General Light Industry | 51,759.47 | 1000sqft | 1,188.23 | 51,759,470.00 | 0 |
| Apartments Mid Rise | 25,250.00 | Dwelling Unit | 664.47 | 25,250,000.00 | 72215 |
| Single Family Housing | 52,130.00 | Dwelling Unit | 16,925.32 | 93,834,000.00 | 149092 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2040 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 702.44 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - GPU 2040 land uses

Construction Phase - Construction emissions analyzed separately

Off-road Equipment -

Vehicle Trips - Mobile emissions calculated separately

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood stoves or fireplaces modeled

Energy Use - Energy calculated separately

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------------|---------------|---------------|
| tblConstructionPhase | NumDays | 155,000.00 | 1.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 21,462.50 | 0.00 |
| tblFireplaces | NumberGas | 44,310.50 | 0.00 |
| tblFireplaces | NumberNoFireplace | 2,525.00 | 25,250.00 |
| tblFireplaces | NumberNoFireplace | 5,213.00 | 52,130.00 |
| tblFireplaces | NumberWood | 1,262.50 | 0.00 |
| tblFireplaces | NumberWood | 2,606.50 | 0.00 |
| tblLandUse | LandUseSquareFeet | 16,427,600.00 | 16,427,570.00 |
| tblLandUse | LandUseSquareFeet | 51,759,500.00 | 51,759,470.00 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

| | | | |
|-----------------|--------------------|----------|------|
| tblVehicleTrips | HO_TL | 8.70 | 0.00 |
| tblVehicleTrips | HO_TL | 8.70 | 0.00 |
| tblVehicleTrips | HS_TL | 5.90 | 0.00 |
| tblVehicleTrips | HS_TL | 5.90 | 0.00 |
| tblVehicleTrips | HW_TL | 14.70 | 0.00 |
| tblVehicleTrips | HW_TL | 14.70 | 0.00 |
| tblVehicleTrips | ST_TR | 6.39 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | ST_TR | 2.46 | 0.00 |
| tblVehicleTrips | ST_TR | 9.91 | 0.00 |
| tblVehicleTrips | SU_TR | 5.86 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | SU_TR | 8.62 | 0.00 |
| tblVehicleTrips | WD_TR | 6.65 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblVehicleTrips | WD_TR | 11.03 | 0.00 |
| tblVehicleTrips | WD_TR | 9.52 | 0.00 |
| tblWoodstoves | NumberCatalytic | 1,262.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 2,606.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1,262.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2,606.50 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

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 | 4,276.0234 | 73.4258 | 6,362.8211 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.8999 | 11,509.8999 | 10.9798 | 0.0000 | 11,784.3946 |
| Energy | 120.1571 | 1,056.1781 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1238 | 24.0314 | 1,318,593.6333 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 4,396.1805 | 1,129.6040 | 7,015.2204 | 6.8917 | 0.0000 | 118.4445 | 118.4445 | 0.0000 | 118.4445 | 118.4445 | 0.0000 | 1,322,314.0794 | 1,322,314.0794 | 36.1035 | 24.0314 | 1,330,378.0279 |

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 | 4,276.0234 | 73.4258 | 6,362.8211 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.8999 | 11,509.8999 | 10.9798 | 0.0000 | 11,784.3946 |
| Energy | 120.1571 | 1,056.1781 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1238 | 24.0314 | 1,318,593.6333 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 4,396.1805 | 1,129.6040 | 7,015.2204 | 6.8917 | 0.0000 | 118.4445 | 118.4445 | 0.0000 | 118.4445 | 118.4445 | 0.0000 | 1,322,314.0794 | 1,322,314.0794 | 36.1035 | 24.0314 | 1,330,378.0279 |

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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 | Building Construction | Building Construction | 1/1/2021 | 1/1/2021 | 5 | 1 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|------------------------|--------|-------------|-------------|-------------|
| | | | | | |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | | | 19,448.00 | 0.00 | 14.70 | 6.90 | | | | |

3.1 Mitigation Measures Construction

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

3.2 Building Construction - 2021

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 |
| Vendor | | | | | 88.7079 | 0.0000 | 88.7079 | 21.7738 | 0.0000 | 21.7738 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 88.7079 | 0.0000 | 88.7079 | 21.7738 | 0.0000 | 21.7738 | | | 0.0000 | | | 0.0000 |

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 |
| Vendor | | | | | 88.7079 | 0.0000 | 88.7079 | 21.7738 | 0.0000 | 21.7738 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 88.7079 | 0.0000 | 88.7079 | 21.7738 | 0.0000 | 21.7738 | | | 0.0000 | | | 0.0000 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | | |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Light Industry | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Single Family Housing | 0.00 | 0.00 | 0.00 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| General Light Industry | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| General Office Building | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| Single Family Housing | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive 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 | 120.1571 | 1,056.1781 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1238 | 24.0314 | 1,318,593.6333 |
| NaturalGas Unmitigated | 120.1571 | 1,056.1781 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1238 | 24.0314 | 1,318,593.6333 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|-------------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|-----------------------|-----------------------|----------------|----------------|-----------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 882892 | 9.5214 | 81.3645 | 34.6232 | 0.5194 | | 6.5784 | 6.5784 | | 6.5784 | 6.5784 | | 103,869.5882 | 103,869.5882 | 1.9908 | 1.9043 | 104,486.8333 |
| General Light Industry | 4.80583e+006 | 51.8276 | 471.1599 | 395.7744 | 2.8270 | | 35.8082 | 35.8082 | | 35.8082 | 35.8082 | | 565,391.9221 | 565,391.9221 | 10.8367 | 10.3655 | 568,751.7636 |
| General Office Building | 189030 | 2.0386 | 18.5323 | 15.5671 | 0.1112 | | 1.4085 | 1.4085 | | 1.4085 | 1.4085 | | 22,238.7733 | 22,238.7733 | 0.4262 | 0.4077 | 22,370.9272 |
| Single Family Housing | 5.26408e+006 | 56.7695 | 485.1214 | 206.4346 | 3.0965 | | 39.2226 | 39.2226 | | 39.2226 | 39.2226 | | 619,303.8959 | 619,303.8959 | 11.8700 | 11.3539 | 622,984.1093 |
| Total | | 120.1570 | 1,056.1782 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1237 | 24.0314 | 1,318,593.6333 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|-------------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|-----------------------|-----------------------|----------------|----------------|-----------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 882.891 | 9.5214 | 81.3645 | 34.6232 | 0.5194 | | 6.5784 | 6.5784 | | 6.5784 | 6.5784 | | 103,869.5882 | 103,869.5882 | 1.9908 | 1.9043 | 104,486.8333 |
| General Light Industry | 4805.83 | 51.8276 | 471.1599 | 395.7744 | 2.8270 | | 35.8082 | 35.8082 | | 35.8082 | 35.8082 | | 565,391.9221 | 565,391.9221 | 10.8367 | 10.3655 | 568,751.7636 |
| General Office Building | 189.03 | 2.0386 | 18.5323 | 15.5671 | 0.1112 | | 1.4085 | 1.4085 | | 1.4085 | 1.4085 | | 22,238.7733 | 22,238.7733 | 0.4262 | 0.4077 | 22,370.9272 |
| Single Family Housing | 5264.08 | 56.7695 | 485.1214 | 206.4346 | 3.0965 | | 39.2226 | 39.2226 | | 39.2226 | 39.2226 | | 619,303.8959 | 619,303.8959 | 11.8700 | 11.3539 | 622,984.1093 |
| Total | | 120.1570 | 1,056.1782 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1237 | 24.0314 | 1,318,593.6333 |

6.0 Area Detail

6.1 Mitigation Measures Area

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive 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 | 4,276.023 4 | 73.4258 | 6,362.821 1 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.89 99 | 11,509.89 99 | 10.9798 | 0.0000 | 11,784.39 46 |
| Unmitigated | 4,276.023 4 | 73.4258 | 6,362.821 1 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.89 99 | 11,509.89 99 | 10.9798 | 0.0000 | 11,784.39 46 |

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 | 377.3241 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3,707.966 6 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 190.7328 | 73.4258 | 6,362.821 1 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | | 11,509.89 99 | 11,509.89 99 | 10.9798 | | 11,784.39 46 |
| Total | 4,276.023 4 | 73.4258 | 6,362.821 1 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.89 99 | 11,509.89 99 | 10.9798 | 0.0000 | 11,784.39 46 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

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 | 377.3241 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3,707.9666 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 190.7328 | 73.4258 | 6,362.8211 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | | 11,509.8999 | 11,509.8999 | 10.9798 | | 11,784.3946 |
| Total | 4,276.0234 | 73.4258 | 6,362.8211 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.8999 | 11,509.8999 | 10.9798 | 0.0000 | 11,784.3946 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Winter

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

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

9504 Moreno Valley GPU - GPU 2040
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 16,427.57 | 1000sqft | 377.13 | 16,427,570.00 | 0 |
| General Light Industry | 51,759.47 | 1000sqft | 1,188.23 | 51,759,470.00 | 0 |
| Apartments Mid Rise | 25,250.00 | Dwelling Unit | 664.47 | 25,250,000.00 | 72215 |
| Single Family Housing | 52,130.00 | Dwelling Unit | 16,925.32 | 93,834,000.00 | 149092 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2040 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 702.44 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - GPU 2040 land uses

Construction Phase - Construction emissions analyzed separately

Off-road Equipment -

Vehicle Trips - Mobile emissions calculated separately

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood stoves or fireplaces modeled

Energy Use - Energy calculated separately

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------------|---------------|---------------|
| tblConstructionPhase | NumDays | 155,000.00 | 1.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 21,462.50 | 0.00 |
| tblFireplaces | NumberGas | 44,310.50 | 0.00 |
| tblFireplaces | NumberNoFireplace | 2,525.00 | 25,250.00 |
| tblFireplaces | NumberNoFireplace | 5,213.00 | 52,130.00 |
| tblFireplaces | NumberWood | 1,262.50 | 0.00 |
| tblFireplaces | NumberWood | 2,606.50 | 0.00 |
| tblLandUse | LandUseSquareFeet | 16,427,600.00 | 16,427,570.00 |
| tblLandUse | LandUseSquareFeet | 51,759,500.00 | 51,759,470.00 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

| | | | |
|-----------------|--------------------|----------|------|
| tblVehicleTrips | HO_TL | 8.70 | 0.00 |
| tblVehicleTrips | HO_TL | 8.70 | 0.00 |
| tblVehicleTrips | HS_TL | 5.90 | 0.00 |
| tblVehicleTrips | HS_TL | 5.90 | 0.00 |
| tblVehicleTrips | HW_TL | 14.70 | 0.00 |
| tblVehicleTrips | HW_TL | 14.70 | 0.00 |
| tblVehicleTrips | ST_TR | 6.39 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | ST_TR | 2.46 | 0.00 |
| tblVehicleTrips | ST_TR | 9.91 | 0.00 |
| tblVehicleTrips | SU_TR | 5.86 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | SU_TR | 8.62 | 0.00 |
| tblVehicleTrips | WD_TR | 6.65 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblVehicleTrips | WD_TR | 11.03 | 0.00 |
| tblVehicleTrips | WD_TR | 9.52 | 0.00 |
| tblWoodstoves | NumberCatalytic | 1,262.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 2,606.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1,262.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2,606.50 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

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 | 4,276.0234 | 73.4258 | 6,362.8211 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.8999 | 11,509.8999 | 10.9798 | 0.0000 | 11,784.3946 |
| Energy | 120.1571 | 1,056.1781 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1238 | 24.0314 | 1,318,593.6333 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 4,396.1805 | 1,129.6040 | 7,015.2204 | 6.8917 | 0.0000 | 118.4445 | 118.4445 | 0.0000 | 118.4445 | 118.4445 | 0.0000 | 1,322,314.0794 | 1,322,314.0794 | 36.1035 | 24.0314 | 1,330,378.0279 |

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 | 4,276.0234 | 73.4258 | 6,362.8211 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.8999 | 11,509.8999 | 10.9798 | 0.0000 | 11,784.3946 |
| Energy | 120.1571 | 1,056.1781 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1238 | 24.0314 | 1,318,593.6333 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 4,396.1805 | 1,129.6040 | 7,015.2204 | 6.8917 | 0.0000 | 118.4445 | 118.4445 | 0.0000 | 118.4445 | 118.4445 | 0.0000 | 1,322,314.0794 | 1,322,314.0794 | 36.1035 | 24.0314 | 1,330,378.0279 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | 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 | Building Construction | Building Construction | 1/1/2021 | 1/1/2021 | 5 | 1 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|------------------------|--------|-------------|-------------|-------------|
| | | | | | |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | | | 19,448.00 | 0.00 | 14.70 | 6.90 | | | | |

3.1 Mitigation Measures Construction

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

3.2 Building Construction - 2021

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 |
| Vendor | | | | | 88.7079 | 0.0000 | 88.7079 | 21.7738 | 0.0000 | 21.7738 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 88.7079 | 0.0000 | 88.7079 | 21.7738 | 0.0000 | 21.7738 | | | 0.0000 | | | 0.0000 |

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 |
| Vendor | | | | | 88.7079 | 0.0000 | 88.7079 | 21.7738 | 0.0000 | 21.7738 | | | 0.0000 | | | 0.0000 |
| Worker | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | | | | | 88.7079 | 0.0000 | 88.7079 | 21.7738 | 0.0000 | 21.7738 | | | 0.0000 | | | 0.0000 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | | |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Light Industry | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Single Family Housing | 0.00 | 0.00 | 0.00 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| General Light Industry | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| General Office Building | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |
| Single Family Housing | 0.566189 | 0.033707 | 0.192293 | 0.100413 | 0.008756 | 0.004001 | 0.016522 | 0.070107 | 0.001420 | 0.001057 | 0.004327 | 0.000696 | 0.000512 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive 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 | 120.1571 | 1,056.1781 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1238 | 24.0314 | 1,318,593.6333 |
| NaturalGas Unmitigated | 120.1571 | 1,056.1781 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1238 | 24.0314 | 1,318,593.6333 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|-------------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|-----------------------|-----------------------|----------------|----------------|-----------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 882892 | 9.5214 | 81.3645 | 34.6232 | 0.5194 | | 6.5784 | 6.5784 | | 6.5784 | 6.5784 | | 103,869.5882 | 103,869.5882 | 1.9908 | 1.9043 | 104,486.8333 |
| General Light Industry | 4.80583e+006 | 51.8276 | 471.1599 | 395.7744 | 2.8270 | | 35.8082 | 35.8082 | | 35.8082 | 35.8082 | | 565,391.9221 | 565,391.9221 | 10.8367 | 10.3655 | 568,751.7636 |
| General Office Building | 189030 | 2.0386 | 18.5323 | 15.5671 | 0.1112 | | 1.4085 | 1.4085 | | 1.4085 | 1.4085 | | 22,238.7733 | 22,238.7733 | 0.4262 | 0.4077 | 22,370.9272 |
| Single Family Housing | 5.26408e+006 | 56.7695 | 485.1214 | 206.4346 | 3.0965 | | 39.2226 | 39.2226 | | 39.2226 | 39.2226 | | 619,303.8959 | 619,303.8959 | 11.8700 | 11.3539 | 622,984.1093 |
| Total | | 120.1570 | 1,056.1782 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1237 | 24.0314 | 1,318,593.6333 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|-------------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|-----------------------|-----------------------|----------------|----------------|-----------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 882.891 | 9.5214 | 81.3645 | 34.6232 | 0.5194 | | 6.5784 | 6.5784 | | 6.5784 | 6.5784 | | 103,869.5882 | 103,869.5882 | 1.9908 | 1.9043 | 104,486.8333 |
| General Light Industry | 4805.83 | 51.8276 | 471.1599 | 395.7744 | 2.8270 | | 35.8082 | 35.8082 | | 35.8082 | 35.8082 | | 565,391.9221 | 565,391.9221 | 10.8367 | 10.3655 | 568,751.7636 |
| General Office Building | 189.03 | 2.0386 | 18.5323 | 15.5671 | 0.1112 | | 1.4085 | 1.4085 | | 1.4085 | 1.4085 | | 22,238.7733 | 22,238.7733 | 0.4262 | 0.4077 | 22,370.9272 |
| Single Family Housing | 5264.08 | 56.7695 | 485.1214 | 206.4346 | 3.0965 | | 39.2226 | 39.2226 | | 39.2226 | 39.2226 | | 619,303.8959 | 619,303.8959 | 11.8700 | 11.3539 | 622,984.1093 |
| Total | | 120.1570 | 1,056.1782 | 652.3993 | 6.5540 | | 83.0176 | 83.0176 | | 83.0176 | 83.0176 | | 1,310,804.1795 | 1,310,804.1795 | 25.1237 | 24.0314 | 1,318,593.6333 |

6.0 Area Detail

6.1 Mitigation Measures Area

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive 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 | 4,276.023 4 | 73.4258 | 6,362.821 1 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.89 99 | 11,509.89 99 | 10.9798 | 0.0000 | 11,784.39 46 |
| Unmitigated | 4,276.023 4 | 73.4258 | 6,362.821 1 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.89 99 | 11,509.89 99 | 10.9798 | 0.0000 | 11,784.39 46 |

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 | 377.3241 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3,707.966 6 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 190.7328 | 73.4258 | 6,362.821 1 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | | 11,509.89 99 | 11,509.89 99 | 10.9798 | | 11,784.39 46 |
| Total | 4,276.023 4 | 73.4258 | 6,362.821 1 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.89 99 | 11,509.89 99 | 10.9798 | 0.0000 | 11,784.39 46 |

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

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 | 377.3241 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3,707.9666 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 190.7328 | 73.4258 | 6,362.8211 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | | 11,509.8999 | 11,509.8999 | 10.9798 | | 11,784.3946 |
| Total | 4,276.0234 | 73.4258 | 6,362.8211 | 0.3376 | | 35.4269 | 35.4269 | | 35.4269 | 35.4269 | 0.0000 | 11,509.8999 | 11,509.8999 | 10.9798 | 0.0000 | 11,784.3946 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

9504 Moreno Valley GPU - GPU 2040 - Riverside-South Coast County, Summer

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

**CalEEMod Output – Sample Construction
Emissions**

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

9504 Moreno Valley GPU - Construction
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Mid Rise | 300.00 | Dwelling Unit | 4.00 | 300,000.00 | 858 |
| Strip Mall | 10.00 | 1000sqft | 1.00 | 10,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 702.44 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 5-acre mixed use project

Demolition -

Construction Phase - Arch coatings simultaneous with building

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

| Table Name | Column Name | Default Value | New Value |
|----------------------|----------------|---------------|-----------|
| tblConstructionPhase | NumDays | 18.00 | 115.00 |
| tblConstructionPhase | PhaseEndDate | 2/23/2023 | 1/4/2023 |
| tblConstructionPhase | PhaseStartDate | 1/31/2023 | 7/28/2022 |
| tblLandUse | LotAcreage | 7.89 | 4.00 |
| tblLandUse | LotAcreage | 0.23 | 1.00 |

2.0 Emissions Summary

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

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 | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |
| Energy | 0.1318 | 1.1266 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |
| Mobile | 3.3833 | 23.9321 | 40.7789 | 0.1971 | 16.3350 | 0.1153 | 16.4503 | 4.3700 | 0.1075 | 4.4775 | | 20,156.6692 | 20,156.6692 | 0.9319 | | 20,179.9663 |
| Total | 89.5495 | 31.5685 | 218.5832 | 0.5948 | 16.3350 | 23.2599 | 39.5948 | 4.3700 | 23.2520 | 27.6220 | 2,810.0755 | 27,038.9242 | 29,848.9997 | 9.3825 | 0.2171 | 30,148.2534 |

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 | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |
| Energy | 0.1318 | 1.1266 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |
| Mobile | 3.3833 | 23.9321 | 40.7789 | 0.1971 | 16.3350 | 0.1153 | 16.4503 | 4.3700 | 0.1075 | 4.4775 | | 20,156.6692 | 20,156.6692 | 0.9319 | | 20,179.9663 |
| Total | 89.5495 | 31.5685 | 218.5832 | 0.5948 | 16.3350 | 23.2599 | 39.5948 | 4.3700 | 23.2520 | 27.6220 | 2,810.0755 | 27,038.9242 | 29,848.9997 | 9.3825 | 0.2171 | 30,148.2534 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | 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 | 1/3/2022 | 1/28/2022 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 1/29/2022 | 2/4/2022 | 5 | 5 | |
| 3 | Grading | Grading | 2/5/2022 | 2/16/2022 | 5 | 8 | |
| 4 | Building Construction | Building Construction | 2/17/2022 | 1/4/2023 | 5 | 230 | |
| 5 | Paving | Paving | 1/5/2023 | 1/30/2023 | 5 | 18 | |
| 6 | Architectural Coating | Architectural Coating | 7/28/2022 | 1/4/2023 | 5 | 115 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 607,500; Residential Outdoor: 202,500; Non-Residential Indoor: 15,000; Non-Residential Outdoor: 5,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Trips and VMT

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 44.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 219.00 | 34.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Demolition | 6 | 15.00 | 0.00 | 91.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.9904 | 0.0000 | 0.9904 | 0.1500 | 0.0000 | 0.1500 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 0.9904 | 1.2427 | 2.2331 | 0.1500 | 1.1553 | 1.3052 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.2 Demolition - 2022

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 | 0.0219 | 0.9050 | 0.1468 | 3.3000e-003 | 0.0796 | 2.5300e-003 | 0.0821 | 0.0218 | 2.4300e-003 | 0.0242 | | 350.4445 | 350.4445 | 0.0222 | | 350.9988 |
| 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 |
| Worker | 0.0655 | 0.0377 | 0.4123 | 1.3800e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 138.0508 | 138.0508 | 2.9800e-003 | | 138.1253 |
| Total | 0.0874 | 0.9427 | 0.5591 | 4.6800e-003 | 0.2472 | 3.4900e-003 | 0.2508 | 0.0663 | 3.3200e-003 | 0.0696 | | 488.4954 | 488.4954 | 0.0252 | | 489.1240 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.9904 | 0.0000 | 0.9904 | 0.1500 | 0.0000 | 0.1500 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 0.9904 | 1.2427 | 2.2331 | 0.1500 | 1.1553 | 1.3052 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.2 Demolition - 2022

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 | 0.0219 | 0.9050 | 0.1468 | 3.3000e-003 | 0.0796 | 2.5300e-003 | 0.0821 | 0.0218 | 2.4300e-003 | 0.0242 | | 350.4445 | 350.4445 | 0.0222 | | 350.9988 |
| 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 |
| Worker | 0.0655 | 0.0377 | 0.4123 | 1.3800e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 138.0508 | 138.0508 | 2.9800e-003 | | 138.1253 |
| Total | 0.0874 | 0.9427 | 0.5591 | 4.6800e-003 | 0.2472 | 3.4900e-003 | 0.2508 | 0.0663 | 3.3200e-003 | 0.0696 | | 488.4954 | 488.4954 | 0.0252 | | 489.1240 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 18.0663 | 1.6126 | 19.6788 | 9.9307 | 1.4836 | 11.4143 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.3 Site Preparation - 2022

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 |
| 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 |
| Worker | 0.0786 | 0.0452 | 0.4947 | 1.6600e-003 | 0.2012 | 1.1500e-003 | 0.2024 | 0.0534 | 1.0600e-003 | 0.0544 | | 165.6610 | 165.6610 | 3.5700e-003 | | 165.7503 |
| Total | 0.0786 | 0.0452 | 0.4947 | 1.6600e-003 | 0.2012 | 1.1500e-003 | 0.2024 | 0.0534 | 1.0600e-003 | 0.0544 | | 165.6610 | 165.6610 | 3.5700e-003 | | 165.7503 |

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 | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 18.0663 | 1.6126 | 19.6788 | 9.9307 | 1.4836 | 11.4143 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.3 Site Preparation - 2022

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 |
| 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 |
| Worker | 0.0786 | 0.0452 | 0.4947 | 1.6600e-003 | 0.2012 | 1.1500e-003 | 0.2024 | 0.0534 | 1.0600e-003 | 0.0544 | | 165.6610 | 165.6610 | 3.5700e-003 | | 165.7503 |
| Total | 0.0786 | 0.0452 | 0.4947 | 1.6600e-003 | 0.2012 | 1.1500e-003 | 0.2024 | 0.0534 | 1.0600e-003 | 0.0544 | | 165.6610 | 165.6610 | 3.5700e-003 | | 165.7503 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9486 | 20.8551 | 15.2727 | 0.0297 | | 0.9409 | 0.9409 | | 0.8656 | 0.8656 | | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |
| Total | 1.9486 | 20.8551 | 15.2727 | 0.0297 | 6.5523 | 0.9409 | 7.4932 | 3.3675 | 0.8656 | 4.2331 | | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.4 Grading - 2022

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 |
| 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 |
| Worker | 0.0655 | 0.0377 | 0.4123 | 1.3800e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 138.0508 | 138.0508 | 2.9800e-003 | | 138.1253 |
| Total | 0.0655 | 0.0377 | 0.4123 | 1.3800e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 138.0508 | 138.0508 | 2.9800e-003 | | 138.1253 |

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 | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9486 | 20.8551 | 15.2727 | 0.0297 | | 0.9409 | 0.9409 | | 0.8656 | 0.8656 | 0.0000 | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |
| Total | 1.9486 | 20.8551 | 15.2727 | 0.0297 | 6.5523 | 0.9409 | 7.4932 | 3.3675 | 0.8656 | 4.2331 | 0.0000 | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.4 Grading - 2022

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 |
| 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 |
| Worker | 0.0655 | 0.0377 | 0.4123 | 1.3800e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 138.0508 | 138.0508 | 2.9800e-003 | | 138.1253 |
| Total | 0.0655 | 0.0377 | 0.4123 | 1.3800e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 138.0508 | 138.0508 | 2.9800e-003 | | 138.1253 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.5 Building Construction - 2022

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 |
| Vendor | 0.0787 | 2.9387 | 0.6199 | 8.4000e-003 | 0.2177 | 5.1900e-003 | 0.2229 | 0.0627 | 4.9700e-003 | 0.0677 | | 886.3023 | 886.3023 | 0.0702 | | 888.0575 |
| Worker | 0.9559 | 0.5503 | 6.0191 | 0.0202 | 2.4479 | 0.0140 | 2.4620 | 0.6492 | 0.0129 | 0.6621 | | 2,015.5422 | 2,015.5422 | 0.0435 | | 2,016.6289 |
| Total | 1.0346 | 3.4890 | 6.6390 | 0.0286 | 2.6656 | 0.0192 | 2.6849 | 0.7119 | 0.0179 | 0.7298 | | 2,901.8444 | 2,901.8444 | 0.1137 | | 2,904.6864 |

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 | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.5 Building Construction - 2022

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 |
| Vendor | 0.0787 | 2.9387 | 0.6199 | 8.4000e-003 | 0.2177 | 5.1900e-003 | 0.2229 | 0.0627 | 4.9700e-003 | 0.0677 | | 886.3023 | 886.3023 | 0.0702 | | 888.0575 |
| Worker | 0.9559 | 0.5503 | 6.0191 | 0.0202 | 2.4479 | 0.0140 | 2.4620 | 0.6492 | 0.0129 | 0.6621 | | 2,015.5422 | 2,015.5422 | 0.0435 | | 2,016.6289 |
| Total | 1.0346 | 3.4890 | 6.6390 | 0.0286 | 2.6656 | 0.0192 | 2.6849 | 0.7119 | 0.0179 | 0.7298 | | 2,901.8444 | 2,901.8444 | 0.1137 | | 2,904.6864 |

3.5 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| Total | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.5 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 |
| Vendor | 0.0601 | 2.2018 | 0.5315 | 8.1800e-003 | 0.2177 | 2.3200e-003 | 0.2200 | 0.0627 | 2.2200e-003 | 0.0649 | | 863.2690 | 863.2690 | 0.0535 | | 864.6075 |
| Worker | 0.8991 | 0.4960 | 5.5468 | 0.0194 | 2.4479 | 0.0137 | 2.4616 | 0.6492 | 0.0126 | 0.6618 | | 1,939.0524 | 1,939.0524 | 0.0391 | | 1,940.0291 |
| Total | 0.9592 | 2.6978 | 6.0783 | 0.0276 | 2.6656 | 0.0160 | 2.6816 | 0.7119 | 0.0148 | 0.7267 | | 2,802.3214 | 2,802.3214 | 0.0926 | | 2,804.6366 |

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 | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| Total | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.5 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 |
| Vendor | 0.0601 | 2.2018 | 0.5315 | 8.1800e-003 | 0.2177 | 2.3200e-003 | 0.2200 | 0.0627 | 2.2200e-003 | 0.0649 | | 863.2690 | 863.2690 | 0.0535 | | 864.6075 |
| Worker | 0.8991 | 0.4960 | 5.5468 | 0.0194 | 2.4479 | 0.0137 | 2.4616 | 0.6492 | 0.0126 | 0.6618 | | 1,939.0524 | 1,939.0524 | 0.0391 | | 1,940.0291 |
| Total | 0.9592 | 2.6978 | 6.0783 | 0.0276 | 2.6656 | 0.0160 | 2.6816 | 0.7119 | 0.0148 | 0.7267 | | 2,802.3214 | 2,802.3214 | 0.0926 | | 2,804.6366 |

3.6 Paving - 2023

Unmitigated Construction On-Site

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

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.6 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 |
| 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 |
| Worker | 0.0616 | 0.0340 | 0.3799 | 1.3300e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.6000e-004 | 0.0453 | | 132.8118 | 132.8118 | 2.6800e-003 | | 132.8787 |
| Total | 0.0616 | 0.0340 | 0.3799 | 1.3300e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.6000e-004 | 0.0453 | | 132.8118 | 132.8118 | 2.6800e-003 | | 132.8787 |

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 | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | 0.0000 | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | 0.0000 | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.6 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 |
| 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 |
| Worker | 0.0616 | 0.0340 | 0.3799 | 1.3300e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.6000e-004 | 0.0453 | | 132.8118 | 132.8118 | 2.6800e-003 | | 132.8787 |
| Total | 0.0616 | 0.0340 | 0.3799 | 1.3300e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.6000e-004 | 0.0453 | | 132.8118 | 132.8118 | 2.6800e-003 | | 132.8787 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 17.1294 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 17.3339 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.7 Architectural Coating - 2022

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 |
| 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 |
| Worker | 0.1921 | 0.1106 | 1.2093 | 4.0600e-003 | 0.4918 | 2.8200e-003 | 0.4946 | 0.1304 | 2.6000e-003 | 0.1330 | | 404.9491 | 404.9491 | 8.7300e-003 | | 405.1674 |
| Total | 0.1921 | 0.1106 | 1.2093 | 4.0600e-003 | 0.4918 | 2.8200e-003 | 0.4946 | 0.1304 | 2.6000e-003 | 0.1330 | | 404.9491 | 404.9491 | 8.7300e-003 | | 405.1674 |

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 | 17.1294 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 17.3339 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.7 Architectural Coating - 2022

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 |
| 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 |
| Worker | 0.1921 | 0.1106 | 1.2093 | 4.0600e-003 | 0.4918 | 2.8200e-003 | 0.4946 | 0.1304 | 2.6000e-003 | 0.1330 | | 404.9491 | 404.9491 | 8.7300e-003 | | 405.1674 |
| Total | 0.1921 | 0.1106 | 1.2093 | 4.0600e-003 | 0.4918 | 2.8200e-003 | 0.4946 | 0.1304 | 2.6000e-003 | 0.1330 | | 404.9491 | 404.9491 | 8.7300e-003 | | 405.1674 |

3.7 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 | 17.1294 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 17.3210 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.7 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 |
| 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 |
| Worker | 0.1806 | 0.0997 | 1.1144 | 3.9100e-003 | 0.4918 | 2.7500e-003 | 0.4946 | 0.1304 | 2.5400e-003 | 0.1330 | | 389.5813 | 389.5813 | 7.8500e-003 | | 389.7775 |
| Total | 0.1806 | 0.0997 | 1.1144 | 3.9100e-003 | 0.4918 | 2.7500e-003 | 0.4946 | 0.1304 | 2.5400e-003 | 0.1330 | | 389.5813 | 389.5813 | 7.8500e-003 | | 389.7775 |

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 | 17.1294 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 17.3210 | 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 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

3.7 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 |
| 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 |
| Worker | 0.1806 | 0.0997 | 1.1144 | 3.9100e-003 | 0.4918 | 2.7500e-003 | 0.4946 | 0.1304 | 2.5400e-003 | 0.1330 | | 389.5813 | 389.5813 | 7.8500e-003 | | 389.7775 |
| Total | 0.1806 | 0.0997 | 1.1144 | 3.9100e-003 | 0.4918 | 2.7500e-003 | 0.4946 | 0.1304 | 2.5400e-003 | 0.1330 | | 389.5813 | 389.5813 | 7.8500e-003 | | 389.7775 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive 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 | 3.3833 | 23.9321 | 40.7789 | 0.1971 | 16.3350 | 0.1153 | 16.4503 | 4.3700 | 0.1075 | 4.4775 | | 20,156.66 92 | 20,156.66 92 | 0.9319 | | 20,179.96 63 |
| Unmitigated | 3.3833 | 23.9321 | 40.7789 | 0.1971 | 16.3350 | 0.1153 | 16.4503 | 4.3700 | 0.1075 | 4.4775 | | 20,156.66 92 | 20,156.66 92 | 0.9319 | | 20,179.96 63 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---------------------|-------------------------|----------|----------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 1,995.00 | 1,917.00 | 1758.00 | 6,663,446 | 6,663,446 |
| Strip Mall | 443.20 | 420.40 | 204.30 | 772,100 | 772,100 |
| Total | 2,438.20 | 2,337.40 | 1,962.30 | 7,435,547 | 7,435,547 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.548600 | 0.036250 | 0.186898 | 0.112544 | 0.014284 | 0.004806 | 0.017604 | 0.070134 | 0.001409 | 0.001147 | 0.004508 | 0.000918 | 0.000898 |
| Strip Mall | 0.548600 | 0.036250 | 0.186898 | 0.112544 | 0.014284 | 0.004806 | 0.017604 | 0.070134 | 0.001409 | 0.001147 | 0.004508 | 0.000918 | 0.000898 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

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 | 0.1318 | 1.1266 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |
| NaturalGas Unmitigated | 0.1318 | 1.1266 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 12159.5 | 0.1311 | 1.1206 | 0.4768 | 7.1500e-003 | | 0.0906 | 0.0906 | | 0.0906 | 0.0906 | | 1,430.5315 | 1,430.5315 | 0.0274 | 0.0262 | 1,439.0324 |
| Strip Mall | 60.8219 | 6.6000e-004 | 5.9600e-003 | 5.0100e-003 | 4.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.5000e-004 | 4.5000e-004 | | 7.1555 | 7.1555 | 1.4000e-004 | 1.3000e-004 | 7.1980 |
| Total | | 0.1318 | 1.1265 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 12.1595 | 0.1311 | 1.1206 | 0.4768 | 7.1500e-003 | | 0.0906 | 0.0906 | | 0.0906 | 0.0906 | | 1,430.5315 | 1,430.5315 | 0.0274 | 0.0262 | 1,439.0324 |
| Strip Mall | 0.0608219 | 6.6000e-004 | 5.9600e-003 | 5.0100e-003 | 4.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.5000e-004 | 4.5000e-004 | | 7.1555 | 7.1555 | 1.4000e-004 | 1.3000e-004 | 7.1980 |
| Total | | 0.1318 | 1.1265 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |

6.0 Area Detail

6.1 Mitigation Measures Area

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive 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 | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |
| Unmitigated | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |

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 | 0.5397 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 6.1380 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 78.6108 | 6.2245 | 152.5656 | 0.3892 | | 22.9165 | 22.9165 | | 22.9165 | 22.9165 | 2,810.0755 | 5,400.0000 | 8,210.0755 | 8.3802 | 0.1907 | 8,476.4172 |
| Landscaping | 0.7459 | 0.2854 | 24.7569 | 1.3100e-003 | | 0.1370 | 0.1370 | | 0.1370 | 0.1370 | | 44.5679 | 44.5679 | 0.0429 | | 45.6394 |
| Total | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

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 | 0.5397 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 6.1380 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 78.6108 | 6.2245 | 152.5656 | 0.3892 | | 22.9165 | 22.9165 | | 22.9165 | 22.9165 | 2,810.0755 | 5,400.0000 | 8,210.0755 | 8.3802 | 0.1907 | 8,476.4172 |
| Landscaping | 0.7459 | 0.2854 | 24.7569 | 1.3100e-003 | | 0.1370 | 0.1370 | | 0.1370 | 0.1370 | | 44.5679 | 44.5679 | 0.0429 | | 45.6394 |
| Total | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Winter

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

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

9504 Moreno Valley GPU - Construction
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Mid Rise | 300.00 | Dwelling Unit | 4.00 | 300,000.00 | 858 |
| Strip Mall | 10.00 | 1000sqft | 1.00 | 10,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 5-acre mixed use project

Demolition -

Construction Phase - Arch coatings simultaneous with building

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

| Table Name | Column Name | Default Value | New Value |
|----------------------|----------------|---------------|-----------|
| tblConstructionPhase | NumDays | 18.00 | 115.00 |
| tblConstructionPhase | PhaseEndDate | 2/23/2023 | 1/4/2023 |
| tblConstructionPhase | PhaseStartDate | 1/31/2023 | 7/28/2022 |
| tblLandUse | LotAcreage | 7.89 | 4.00 |
| tblLandUse | LotAcreage | 0.23 | 1.00 |

2.0 Emissions Summary

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

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 | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |
| Energy | 0.1318 | 1.1266 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |
| Mobile | 4.0368 | 24.0392 | 47.2236 | 0.2136 | 16.3350 | 0.1145 | 16.4495 | 4.3700 | 0.1068 | 4.4767 | | 21,816.5677 | 21,816.5677 | 0.9081 | | 21,839.2700 |
| Total | 90.2030 | 31.6756 | 225.0279 | 0.6113 | 16.3350 | 23.2591 | 39.5941 | 4.3700 | 23.2513 | 27.6213 | 2,810.0755 | 28,698.8226 | 31,508.8981 | 9.3587 | 0.2171 | 31,807.5570 |

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 | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |
| Energy | 0.1318 | 1.1266 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |
| Mobile | 4.0368 | 24.0392 | 47.2236 | 0.2136 | 16.3350 | 0.1145 | 16.4495 | 4.3700 | 0.1068 | 4.4767 | | 21,816.5677 | 21,816.5677 | 0.9081 | | 21,839.2700 |
| Total | 90.2030 | 31.6756 | 225.0279 | 0.6113 | 16.3350 | 23.2591 | 39.5941 | 4.3700 | 23.2513 | 27.6213 | 2,810.0755 | 28,698.8226 | 31,508.8981 | 9.3587 | 0.2171 | 31,807.5570 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | 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 | 1/3/2022 | 1/28/2022 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 1/29/2022 | 2/4/2022 | 5 | 5 | |
| 3 | Grading | Grading | 2/5/2022 | 2/16/2022 | 5 | 8 | |
| 4 | Building Construction | Building Construction | 2/17/2022 | 1/4/2023 | 5 | 230 | |
| 5 | Paving | Paving | 1/5/2023 | 1/30/2023 | 5 | 18 | |
| 6 | Architectural Coating | Architectural Coating | 7/28/2022 | 1/4/2023 | 5 | 115 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 607,500; Residential Outdoor: 202,500; Non-Residential Indoor: 15,000; Non-Residential Outdoor: 5,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Trips and VMT

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 44.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 219.00 | 34.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Demolition | 6 | 15.00 | 0.00 | 91.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.9904 | 0.0000 | 0.9904 | 0.1500 | 0.0000 | 0.1500 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 0.9904 | 1.2427 | 2.2331 | 0.1500 | 1.1553 | 1.3052 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.2 Demolition - 2022

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 | 0.0208 | 0.9011 | 0.1262 | 3.3900e-003 | 0.0796 | 2.5000e-003 | 0.0821 | 0.0218 | 2.3900e-003 | 0.0242 | | 359.5544 | 359.5544 | 0.0203 | | 360.0612 |
| 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 |
| Worker | 0.0665 | 0.0365 | 0.5115 | 1.5400e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 153.8769 | 153.8769 | 3.4200e-003 | | 153.9624 |
| Total | 0.0873 | 0.9376 | 0.6377 | 4.9300e-003 | 0.2472 | 3.4600e-003 | 0.2507 | 0.0663 | 3.2800e-003 | 0.0696 | | 513.4313 | 513.4313 | 0.0237 | | 514.0236 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.9904 | 0.0000 | 0.9904 | 0.1500 | 0.0000 | 0.1500 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 0.9904 | 1.2427 | 2.2331 | 0.1500 | 1.1553 | 1.3052 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.2 Demolition - 2022

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 | 0.0208 | 0.9011 | 0.1262 | 3.3900e-003 | 0.0796 | 2.5000e-003 | 0.0821 | 0.0218 | 2.3900e-003 | 0.0242 | | 359.5544 | 359.5544 | 0.0203 | | 360.0612 |
| 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 |
| Worker | 0.0665 | 0.0365 | 0.5115 | 1.5400e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 153.8769 | 153.8769 | 3.4200e-003 | | 153.9624 |
| Total | 0.0873 | 0.9376 | 0.6377 | 4.9300e-003 | 0.2472 | 3.4600e-003 | 0.2507 | 0.0663 | 3.2800e-003 | 0.0696 | | 513.4313 | 513.4313 | 0.0237 | | 514.0236 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 18.0663 | 1.6126 | 19.6788 | 9.9307 | 1.4836 | 11.4143 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.3 Site Preparation - 2022

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 |
| 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 |
| Worker | 0.0798 | 0.0438 | 0.6138 | 1.8500e-003 | 0.2012 | 1.1500e-003 | 0.2024 | 0.0534 | 1.0600e-003 | 0.0544 | | 184.6523 | 184.6523 | 4.1000e-003 | | 184.7549 |
| Total | 0.0798 | 0.0438 | 0.6138 | 1.8500e-003 | 0.2012 | 1.1500e-003 | 0.2024 | 0.0534 | 1.0600e-003 | 0.0544 | | 184.6523 | 184.6523 | 4.1000e-003 | | 184.7549 |

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 | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 18.0663 | 1.6126 | 19.6788 | 9.9307 | 1.4836 | 11.4143 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.3 Site Preparation - 2022

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 |
| 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 |
| Worker | 0.0798 | 0.0438 | 0.6138 | 1.8500e-003 | 0.2012 | 1.1500e-003 | 0.2024 | 0.0534 | 1.0600e-003 | 0.0544 | | 184.6523 | 184.6523 | 4.1000e-003 | | 184.7549 |
| Total | 0.0798 | 0.0438 | 0.6138 | 1.8500e-003 | 0.2012 | 1.1500e-003 | 0.2024 | 0.0534 | 1.0600e-003 | 0.0544 | | 184.6523 | 184.6523 | 4.1000e-003 | | 184.7549 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9486 | 20.8551 | 15.2727 | 0.0297 | | 0.9409 | 0.9409 | | 0.8656 | 0.8656 | | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |
| Total | 1.9486 | 20.8551 | 15.2727 | 0.0297 | 6.5523 | 0.9409 | 7.4932 | 3.3675 | 0.8656 | 4.2331 | | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.4 Grading - 2022

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 |
| 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 |
| Worker | 0.0665 | 0.0365 | 0.5115 | 1.5400e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 153.8769 | 153.8769 | 3.4200e-003 | | 153.9624 |
| Total | 0.0665 | 0.0365 | 0.5115 | 1.5400e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 153.8769 | 153.8769 | 3.4200e-003 | | 153.9624 |

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 | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9486 | 20.8551 | 15.2727 | 0.0297 | | 0.9409 | 0.9409 | | 0.8656 | 0.8656 | 0.0000 | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |
| Total | 1.9486 | 20.8551 | 15.2727 | 0.0297 | 6.5523 | 0.9409 | 7.4932 | 3.3675 | 0.8656 | 4.2331 | 0.0000 | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.4 Grading - 2022

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 |
| 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 |
| Worker | 0.0665 | 0.0365 | 0.5115 | 1.5400e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 153.8769 | 153.8769 | 3.4200e-003 | | 153.9624 |
| Total | 0.0665 | 0.0365 | 0.5115 | 1.5400e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.9000e-004 | 0.0454 | | 153.8769 | 153.8769 | 3.4200e-003 | | 153.9624 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.5 Building Construction - 2022

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 |
| Vendor | 0.0740 | 2.9685 | 0.5221 | 8.7300e-003 | 0.2177 | 5.0300e-003 | 0.2227 | 0.0627 | 4.8100e-003 | 0.0675 | | 921.1456 | 921.1456 | 0.0630 | | 922.7193 |
| Worker | 0.9712 | 0.5323 | 7.4681 | 0.0225 | 2.4479 | 0.0140 | 2.4620 | 0.6492 | 0.0129 | 0.6621 | | 2,246.6028 | 2,246.6028 | 0.0499 | | 2,247.8514 |
| Total | 1.0452 | 3.5008 | 7.9903 | 0.0313 | 2.6656 | 0.0191 | 2.6847 | 0.7119 | 0.0177 | 0.7296 | | 3,167.7484 | 3,167.7484 | 0.1129 | | 3,170.5707 |

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 | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.5 Building Construction - 2022

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 |
| Vendor | 0.0740 | 2.9685 | 0.5221 | 8.7300e-003 | 0.2177 | 5.0300e-003 | 0.2227 | 0.0627 | 4.8100e-003 | 0.0675 | | 921.1456 | 921.1456 | 0.0630 | | 922.7193 |
| Worker | 0.9712 | 0.5323 | 7.4681 | 0.0225 | 2.4479 | 0.0140 | 2.4620 | 0.6492 | 0.0129 | 0.6621 | | 2,246.6028 | 2,246.6028 | 0.0499 | | 2,247.8514 |
| Total | 1.0452 | 3.5008 | 7.9903 | 0.0313 | 2.6656 | 0.0191 | 2.6847 | 0.7119 | 0.0177 | 0.7296 | | 3,167.7484 | 3,167.7484 | 0.1129 | | 3,170.5707 |

3.5 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| Total | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.5 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 |
| Vendor | 0.0568 | 2.2322 | 0.4602 | 8.4900e-003 | 0.2177 | 2.2500e-003 | 0.2199 | 0.0627 | 2.1500e-003 | 0.0648 | | 896.6465 | 896.6465 | 0.0483 | | 897.8540 |
| Worker | 0.9106 | 0.4800 | 6.8922 | 0.0217 | 2.4479 | 0.0137 | 2.4616 | 0.6492 | 0.0126 | 0.6618 | | 2,161.2261 | 2,161.2261 | 0.0448 | | 2,162.3467 |
| Total | 0.9674 | 2.7122 | 7.3524 | 0.0302 | 2.6656 | 0.0160 | 2.6816 | 0.7119 | 0.0148 | 0.7266 | | 3,057.8725 | 3,057.8725 | 0.0931 | | 3,060.2007 |

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 | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| Total | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.5 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 |
| Vendor | 0.0568 | 2.2322 | 0.4602 | 8.4900e-003 | 0.2177 | 2.2500e-003 | 0.2199 | 0.0627 | 2.1500e-003 | 0.0648 | | 896.6465 | 896.6465 | 0.0483 | | 897.8540 |
| Worker | 0.9106 | 0.4800 | 6.8922 | 0.0217 | 2.4479 | 0.0137 | 2.4616 | 0.6492 | 0.0126 | 0.6618 | | 2,161.2261 | 2,161.2261 | 0.0448 | | 2,162.3467 |
| Total | 0.9674 | 2.7122 | 7.3524 | 0.0302 | 2.6656 | 0.0160 | 2.6816 | 0.7119 | 0.0148 | 0.7266 | | 3,057.8725 | 3,057.8725 | 0.0931 | | 3,060.2007 |

3.6 Paving - 2023

Unmitigated Construction On-Site

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

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.6 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 |
| 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 |
| Worker | 0.0624 | 0.0329 | 0.4721 | 1.4900e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.6000e-004 | 0.0453 | | 148.0292 | 148.0292 | 3.0700e-003 | | 148.1059 |
| Total | 0.0624 | 0.0329 | 0.4721 | 1.4900e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.6000e-004 | 0.0453 | | 148.0292 | 148.0292 | 3.0700e-003 | | 148.1059 |

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 | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | 0.0000 | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | 0.0000 | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.6 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 |
| 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 |
| Worker | 0.0624 | 0.0329 | 0.4721 | 1.4900e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.6000e-004 | 0.0453 | | 148.0292 | 148.0292 | 3.0700e-003 | | 148.1059 |
| Total | 0.0624 | 0.0329 | 0.4721 | 1.4900e-003 | 0.1677 | 9.4000e-004 | 0.1686 | 0.0445 | 8.6000e-004 | 0.0453 | | 148.0292 | 148.0292 | 3.0700e-003 | | 148.1059 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 17.1294 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 17.3339 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.7 Architectural Coating - 2022

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 |
| 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 |
| Worker | 0.1951 | 0.1070 | 1.5004 | 4.5300e-003 | 0.4918 | 2.8200e-003 | 0.4946 | 0.1304 | 2.6000e-003 | 0.1330 | | 451.3723 | 451.3723 | 0.0100 | | 451.6231 |
| Total | 0.1951 | 0.1070 | 1.5004 | 4.5300e-003 | 0.4918 | 2.8200e-003 | 0.4946 | 0.1304 | 2.6000e-003 | 0.1330 | | 451.3723 | 451.3723 | 0.0100 | | 451.6231 |

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 | 17.1294 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 17.3339 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.7 Architectural Coating - 2022

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 |
| 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 |
| Worker | 0.1951 | 0.1070 | 1.5004 | 4.5300e-003 | 0.4918 | 2.8200e-003 | 0.4946 | 0.1304 | 2.6000e-003 | 0.1330 | | 451.3723 | 451.3723 | 0.0100 | | 451.6231 |
| Total | 0.1951 | 0.1070 | 1.5004 | 4.5300e-003 | 0.4918 | 2.8200e-003 | 0.4946 | 0.1304 | 2.6000e-003 | 0.1330 | | 451.3723 | 451.3723 | 0.0100 | | 451.6231 |

3.7 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 | 17.1294 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 17.3210 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.7 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 |
| 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 |
| Worker | 0.1830 | 0.0964 | 1.3847 | 4.3600e-003 | 0.4918 | 2.7500e-003 | 0.4946 | 0.1304 | 2.5400e-003 | 0.1330 | | 434.2189 | 434.2189 | 9.0100e-003 | | 434.4441 |
| Total | 0.1830 | 0.0964 | 1.3847 | 4.3600e-003 | 0.4918 | 2.7500e-003 | 0.4946 | 0.1304 | 2.5400e-003 | 0.1330 | | 434.2189 | 434.2189 | 9.0100e-003 | | 434.4441 |

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 | 17.1294 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 17.3210 | 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 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

3.7 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 |
| 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 |
| Worker | 0.1830 | 0.0964 | 1.3847 | 4.3600e-003 | 0.4918 | 2.7500e-003 | 0.4946 | 0.1304 | 2.5400e-003 | 0.1330 | | 434.2189 | 434.2189 | 9.0100e-003 | | 434.4441 |
| Total | 0.1830 | 0.0964 | 1.3847 | 4.3600e-003 | 0.4918 | 2.7500e-003 | 0.4946 | 0.1304 | 2.5400e-003 | 0.1330 | | 434.2189 | 434.2189 | 9.0100e-003 | | 434.4441 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive 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 | 4.0368 | 24.0392 | 47.2236 | 0.2136 | 16.3350 | 0.1145 | 16.4495 | 4.3700 | 0.1068 | 4.4767 | | 21,816.5677 | 21,816.5677 | 0.9081 | | 21,839.2700 |
| Unmitigated | 4.0368 | 24.0392 | 47.2236 | 0.2136 | 16.3350 | 0.1145 | 16.4495 | 4.3700 | 0.1068 | 4.4767 | | 21,816.5677 | 21,816.5677 | 0.9081 | | 21,839.2700 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---------------------|-------------------------|----------|----------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 1,995.00 | 1,917.00 | 1758.00 | 6,663,446 | 6,663,446 |
| Strip Mall | 443.20 | 420.40 | 204.30 | 772,100 | 772,100 |
| Total | 2,438.20 | 2,337.40 | 1,962.30 | 7,435,547 | 7,435,547 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.548600 | 0.036250 | 0.186898 | 0.112544 | 0.014284 | 0.004806 | 0.017604 | 0.070134 | 0.001409 | 0.001147 | 0.004508 | 0.000918 | 0.000898 |
| Strip Mall | 0.548600 | 0.036250 | 0.186898 | 0.112544 | 0.014284 | 0.004806 | 0.017604 | 0.070134 | 0.001409 | 0.001147 | 0.004508 | 0.000918 | 0.000898 |

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

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 | 0.1318 | 1.1266 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |
| NaturalGas Unmitigated | 0.1318 | 1.1266 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |

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5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 12159.5 | 0.1311 | 1.1206 | 0.4768 | 7.1500e-003 | | 0.0906 | 0.0906 | | 0.0906 | 0.0906 | | 1,430.5315 | 1,430.5315 | 0.0274 | 0.0262 | 1,439.0324 |
| Strip Mall | 60.8219 | 6.6000e-004 | 5.9600e-003 | 5.0100e-003 | 4.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.5000e-004 | 4.5000e-004 | | 7.1555 | 7.1555 | 1.4000e-004 | 1.3000e-004 | 7.1980 |
| Total | | 0.1318 | 1.1265 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 12.1595 | 0.1311 | 1.1206 | 0.4768 | 7.1500e-003 | | 0.0906 | 0.0906 | | 0.0906 | 0.0906 | | 1,430.5315 | 1,430.5315 | 0.0274 | 0.0262 | 1,439.0324 |
| Strip Mall | 0.0608219 | 6.6000e-004 | 5.9600e-003 | 5.0100e-003 | 4.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.5000e-004 | 4.5000e-004 | | 7.1555 | 7.1555 | 1.4000e-004 | 1.3000e-004 | 7.1980 |
| Total | | 0.1318 | 1.1265 | 0.4819 | 7.1900e-003 | | 0.0911 | 0.0911 | | 0.0911 | 0.0911 | | 1,437.6870 | 1,437.6870 | 0.0276 | 0.0264 | 1,446.2305 |

6.0 Area Detail

6.1 Mitigation Measures Area

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive 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 | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |
| Unmitigated | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |

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 | 0.5397 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 6.1380 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 78.6108 | 6.2245 | 152.5656 | 0.3892 | | 22.9165 | 22.9165 | | 22.9165 | 22.9165 | 2,810.0755 | 5,400.0000 | 8,210.0755 | 8.3802 | 0.1907 | 8,476.4172 |
| Landscaping | 0.7459 | 0.2854 | 24.7569 | 1.3100e-003 | | 0.1370 | 0.1370 | | 0.1370 | 0.1370 | | 44.5679 | 44.5679 | 0.0429 | | 45.6394 |
| Total | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |

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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 | 0.5397 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 6.1380 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 78.6108 | 6.2245 | 152.5656 | 0.3892 | | 22.9165 | 22.9165 | | 22.9165 | 22.9165 | 2,810.0755 | 5,400.0000 | 8,210.0755 | 8.3802 | 0.1907 | 8,476.4172 |
| Landscaping | 0.7459 | 0.2854 | 24.7569 | 1.3100e-003 | | 0.1370 | 0.1370 | | 0.1370 | 0.1370 | | 44.5679 | 44.5679 | 0.0429 | | 45.6394 |
| Total | 86.0344 | 6.5099 | 177.3225 | 0.3905 | | 23.0535 | 23.0535 | | 23.0535 | 23.0535 | 2,810.0755 | 5,444.5679 | 8,254.6434 | 8.4231 | 0.1907 | 8,522.0566 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

9504 Moreno Valley GPU - Construction - Riverside-South Coast County, Summer

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
