

Appendix D

Air Quality and Greenhouse Gas Emissions Data

Milpitas Metro Specific Plan (Project Change) - Operational Calculations

Regional Operations Summary - Unmitigated

| Source | Daily Emissions (lb/day) | | | | | | | | | | GHG Emission (MT/yr) | | | |
|------------------------------|--------------------------|--------------|---------------|------------|---------------|--------------|--------------|----------------|---------------|--------------|----------------------|--------|-----|---------------|
| | ROG | NOX | CO | SOX | Fugitive PM10 | Exhaust PM10 | Total PM10 | Fugitive PM2.5 | Exhaust PM2.5 | Total PM2.5 | CO2 | CH4 | N2O | CO2e |
| | Mobile Emissions | 70.5 | 115.4 | 776.9 | 3.4 | 381.6 | 1.8 | 383.4 | 95.5 | 1.7 | 97.2 | 41,382 | 1 | 2 |
| Area | 254.8 | 5.3 | 437.1 | 0.0 | - | 2.4 | 2.4 | - | 2.4 | 2.4 | 59 | 0 | 0 | 61 |
| Energy | 4.5 | 40.0 | 27.5 | 0.2 | - | 3.1 | 3.1 | - | 3.1 | 3.1 | 9,839 | 0 | 0 | 9,907 |
| Waste | - | - | - | - | - | - | - | - | - | - | 348 | 21 | 0 | 863 |
| Water | - | - | - | - | - | - | - | - | - | - | 388 | 28 | 1 | 1,272 |
| Total Daily Emissions | 329.9 | 160.7 | 1241.5 | 3.7 | 381.6 | 7.3 | 388.9 | 95.5 | 7.2 | 102.7 | 52,017 | 50 | 3 | 54,077 |

Regional Operations Summary - Mitigated¹

| Source | Daily Emissions (lb/day) | | | | | | | | | | GHG Emission (MT/yr) | | | |
|------------------------------|--------------------------|---------------|----------------|-------------|---------------|--------------|---------------|----------------|---------------|--------------|----------------------|--------|------|--------|
| | ROG | NOX | CO | SOX | Fugitive PM10 | Exhaust PM10 | Total PM10 | Fugitive PM2.5 | Exhaust PM2.5 | Total PM2.5 | CO2 | CH4 | N2O | CO2e |
| | Mobile Emissions | 70.54 | 115.36 | 776.89 | 3.42 | 381.57 | 1.80 | 383.37 | 95.51 | 1.69 | 97.20 | 41,382 | 1 | 2 |
| Area | 254.80 | 5.28 | 437.07 | 0.02 | - | 2.39 | 2.39 | - | 2.39 | 2.39 | 59 | 0.04 | 0.00 | 61 |
| Energy | - | - | - | - | - | - | - | - | - | - | 1,695 | 0.29 | 0.04 | 1,715 |
| Waste | - | - | - | - | - | - | - | - | - | - | 348 | 21 | 0 | 863 |
| Water | - | - | - | - | - | - | - | - | - | - | 388 | 28 | 1 | 1,272 |
| Total Daily Emissions | 325.35 | 120.64 | 1213.97 | 3.44 | 381.57 | 4.19 | 385.76 | 95.51 | 4.08 | 99.59 | 43,874 | 49 | 3 | 45,885 |

1. Mitigation includes no Natural Gas Infrastructure, which results in no daily criteria pollutant Energy emissions and reduced GHG emissions.

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

Milpitas Metro Specific Plan - Operational Emissions (No Mobile)

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------------|----------|---------------|-------------|--------------------|------------|
| Condo/Townhouse High Rise | 7,000.00 | Dwelling Unit | 109.38 | 7,000,000.00 | 20020 |
| General Office Building | 2,500.00 | 1000sqft | 57.39 | 2,500,000.00 | 0 |
| Industrial Park | 500.00 | 1000sqft | 11.48 | 500,000.00 | 0 |
| Hotel | 700.00 | Room | 23.33 | 1,016,400.00 | 0 |
| Strip Mall | 300.00 | 1000sqft | 6.89 | 300,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2040 |
| Utility Company | Pacific Gas and Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 41.06 | CH4 Intensity (lb/MW hr) | 0.007 | N2O Intensity (lb/MW hr) | 0.001 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Milpitas Metro Specific Plan Ops emissions only. Mobile emissions are in separate spreadsheet. Elec. emissions extrapolated to 2040 RPS.

Land Use - MMSP 2040 buildout, refer to Project Description.

Construction Phase - Ops only.

Grading - Ops only.

Trips and VMT - Ops only.

Architectural Coating - Ops only.

Vehicle Trips - Mobile emissions have been calculated in a separate worksheet.

Woodstoves - no wood burning allowed.

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

Area Mitigation - Mitigation - required low VOC paint of 10 g/L. All electric landscaping equipment.

Water Mitigation - CalGreen Code requirement.

Waste Mitigation - AB 341 requirement for post 2020.

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---|---------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 2,158,200.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 6,474,600.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 4,725,000.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 14,175,000.00 | 0.00 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 10 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 10 |
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblAreaMitigation | UseLowVOCPaintParkingValue | 150 | 0 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 150 | 10 |
| tblAreaMitigation | UseLowVOCPaintResidentialInteriorValue | 100 | 10 |
| tblConstructionPhase | NumDays | 330.00 | 0.00 |
| tblConstructionPhase | NumDays | 4,650.00 | 0.00 |
| tblConstructionPhase | NumDays | 300.00 | 0.00 |
| tblConstructionPhase | NumDays | 465.00 | 0.00 |
| tblConstructionPhase | NumDays | 330.00 | 0.00 |
| tblConstructionPhase | NumDays | 180.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 12/21/2063 | 9/15/2062 |
| tblConstructionPhase | PhaseEndDate | 6/10/2061 | 8/14/2043 |
| tblConstructionPhase | PhaseEndDate | 2/22/2041 | 12/30/2039 |
| tblConstructionPhase | PhaseEndDate | 8/14/2043 | 11/1/2041 |
| tblConstructionPhase | PhaseEndDate | 9/15/2062 | 6/10/2061 |
| tblConstructionPhase | PhaseEndDate | 11/1/2041 | 2/22/2041 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberWood | 1,190.00 | 0.00 |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | |
|---------------------------|--------------------|----------|-------|
| tblProjectCharacteristics | CH4IntensityFactor | 0.033 | 0.007 |
| tblProjectCharacteristics | CO2IntensityFactor | 203.98 | 41.06 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004 | 0.001 |
| tblTripsAndVMT | VendorTripNumber | 1,456.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 18.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 20.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 6,573.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,315.00 | 0.00 |
| tblVehicleTrips | ST_TR | 4.91 | 0.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 8.19 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | SU_TR | 4.09 | 0.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 5.95 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | WD_TR | 5.44 | 0.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 8.36 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

2.0 Emissions Summary

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | | | | | | | | | | | | | | |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4276 | 0.0000 | 0.0000 | 0.4276 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | ROG | NOx | CO | SO2 | 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 |

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 | 301.1162 | 26.9609 | 584.0248 | 0.1602 | | 4.8470 | 4.8470 | | 4.8470 | 4.8470 | 0.0000 | 26,981.9180 | 26,981.9180 | 1.4892 | 0.4756 | 27,160.8744 |
| Energy | 4.5088 | 40.0439 | 27.4971 | 0.2459 | | 3.1152 | 3.1152 | | 3.1152 | 3.1152 | | 49,187.3921 | 49,187.3921 | 0.9428 | 0.9018 | 49,479.6882 |
| 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 | 0.0000 |
| Total | 305.6251 | 67.0049 | 611.5219 | 0.4062 | 0.0000 | 7.9622 | 7.9622 | 0.0000 | 7.9622 | 7.9622 | 0.0000 | 76,169.3101 | 76,169.3101 | 2.4320 | 1.3774 | 76,640.5626 |

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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|--------------|-----------------|----------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| | Area | Energy | Mobile | Total | Area | Energy | Mobile | Total | Area | Energy | Mobile | Total | Area | Energy | Mobile | Total |
| Area | 254.80 | 5.28 | 437.07 | 0.02 | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 | 0.0000 | 728 | 728 | 1 | 0 | 741 |
| Energy | 4.51 | 40.04 | 27.50 | 0.25 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 49,187 | 49,187 | 1 | 1 | 49,480 | |
| 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 | 0.0000 | |
| Total | 259.3124 | 45.3264 | 464.5709 | 0.2657 | 5.5052 | 5.5052 | 5.5052 | 5.5052 | 5.5052 | 5.5052 | 0.0000 | 49,915.5131 | 49,915.5131 | 1.4617 | 0.9018 | 50,220.7830 |

| | ROG | NOx | CO | SO2 | 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 | 15.15 | 32.35 | 24.03 | 34.57 | 0.00 | 30.86 | 30.86 | 0.00 | 30.86 | 30.86 | 0.00 | 34.47 | 34.47 | 39.90 | 34.53 | 34.47 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/1/2040 | 12/30/2039 | 5 | 0 | |
| 2 | Site Preparation | Site Preparation | 2/23/2041 | 2/22/2041 | 5 | 0 | |
| 3 | Grading | Grading | 11/2/2041 | 11/1/2041 | 5 | 0 | |
| 4 | Building Construction | Building Construction | 8/15/2043 | 8/14/2043 | 5 | 0 | |
| 5 | Paving | Paving | 6/11/2061 | 6/10/2061 | 5 | 0 | |
| 6 | Architectural Coating | Architectural Coating | 9/16/2062 | 9/15/2062 | 5 | 0 | |

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)

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|---------------------------|-------------------------|-------------|-------------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| Condo/Townhouse High Rise | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Hotel | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|---------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse High Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | | | | | | | |
|-------------------------|------|------|------|-------|-------|-------|----|----|----|
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Hotel | 9.50 | 7.30 | 7.30 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Industrial Park | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 9.50 | 7.30 | 7.30 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| Condo/Townhouse High Rise | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| General Office Building | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| Hotel | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| Industrial Park | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| Strip Mall | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |

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 | 4.5088 | 40.0439 | 27.4971 | 0.2459 | | 3.1152 | 3.1152 | | 3.1152 | 3.1152 | | 49,187.392 | 49,187.392 | 0.9428 | 0.9018 | 49,479.688 |
| NaturalGas Unmitigated | 4.5088 | 40.0439 | 27.4971 | 0.2459 | | 3.1152 | 3.1152 | | 3.1152 | 3.1152 | | 49,187.392 | 49,187.392 | 0.9428 | 0.9018 | 49,479.688 |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse High Rise | 160745 | 1.7335 | 14.8137 | 6.3037 | 0.0946 | | 1.1977 | 1.1977 | | 1.1977 | 1.1977 | | 18,911.1233 | 18,911.1233 | 0.3625 | 0.3467 | 19,023.5026 |
| General Office Building | 110959 | 1.1966 | 10.8783 | 9.1378 | 0.0653 | | 0.8268 | 0.8268 | | 0.8268 | 0.8268 | | 13,053.9887 | 13,053.9887 | 0.2502 | 0.2393 | 13,131.5621 |
| Hotel | 122274 | 1.3186 | 11.9877 | 10.0697 | 0.0719 | | 0.9111 | 0.9111 | | 0.9111 | 0.9111 | | 14,385.2132 | 14,385.2132 | 0.2757 | 0.2637 | 14,470.6973 |
| Industrial Park | 22191.8 | 0.2393 | 2.1757 | 1.8276 | 0.0131 | | 0.1654 | 0.1654 | | 0.1654 | 0.1654 | | 2,610.7977 | 2,610.7977 | 0.0500 | 0.0479 | 2,626.3124 |
| Strip Mall | 1923.29 | 0.0207 | 0.1886 | 0.1584 | 1.1300e-003 | | 0.0143 | 0.0143 | | 0.0143 | 0.0143 | | 226.2691 | 226.2691 | 4.3400e-003 | 4.1500e-003 | 227.6137 |
| Total | | 4.5088 | 40.0439 | 27.4971 | 0.2459 | | 3.1152 | 3.1152 | | 3.1152 | 3.1152 | | 49,187.3921 | 49,187.3921 | 0.9428 | 0.9018 | 49,479.6882 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|----------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse High Rise | 160.745 | 1.7335 | 14.8137 | 6.3037 | 0.0946 | | 1.1977 | 1.1977 | | 1.1977 | 1.1977 | | 18,911.1233 | 18,911.1233 | 0.3625 | 0.3467 | 19,023.5026 |
| General Office Building | 110.959 | 1.1966 | 10.8783 | 9.1378 | 0.0653 | | 0.8268 | 0.8268 | | 0.8268 | 0.8268 | | 13,053.9887 | 13,053.9887 | 0.2502 | 0.2393 | 13,131.5621 |
| Hotel | 122.274 | 1.3186 | 11.9877 | 10.0697 | 0.0719 | | 0.9111 | 0.9111 | | 0.9111 | 0.9111 | | 14,385.2132 | 14,385.2132 | 0.2757 | 0.2637 | 14,470.6973 |

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

| | | | | | | | | | | | | | | | | | |
|-----------------|---------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--------------------|--------------------|---------------|---------------|--------------------|
| Industrial Park | 22.1918 | 0.2393 | 2.1757 | 1.8276 | 0.0131 | | 0.1654 | 0.1654 | | 0.1654 | 0.1654 | | 2,610.7977 | 2,610.7977 | 0.0500 | 0.0479 | 2,626.3124 |
| Strip Mall | 1.92329 | 0.0207 | 0.1886 | 0.1584 | 1.1300e-003 | | 0.0143 | 0.0143 | | 0.0143 | 0.0143 | | 226.2691 | 226.2691 | 4.3400e-003 | 4.1500e-003 | 227.6137 |
| Total | | 4.5088 | 40.0439 | 27.4971 | 0.2459 | | 3.1152 | 3.1152 | | 3.1152 | 3.1152 | | 49,187.3921 | 49,187.3921 | 0.9428 | 0.9018 | 49,479.6882 |

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 254.8036 | 5.2824 | 437.0738 | 0.0198 | | 2.3900 | 2.3900 | | 2.3900 | 2.3900 | 0.0000 | 728.1210 | 728.1210 | 0.5190 | 0.0000 | 741.0948 |
| Unmitigated | 301.1162 | 26.9609 | 584.0248 | 0.1602 | | 4.8470 | 4.8470 | | 4.8470 | 4.8470 | 0.0000 | 26,981.9180 | 26,981.9180 | 1.4892 | 0.4756 | 27,160.8744 |

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

| | | | | | | | | | | | | | | | | |
|--------------|-----------------|---------------|-----------------|---------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Landscaping | 9.1364 | 5.2824 | 437.0738 | 0.0198 | | 2.3900 | 2.3900 | | 2.3900 | 2.3900 | | 728.1210 | 728.1210 | 0.5190 | | 741.0948 |
| Total | 254.8036 | 5.2824 | 437.0738 | 0.0198 | | 2.3900 | 2.3900 | | 2.3900 | 2.3900 | 0.0000 | 728.1210 | 728.1210 | 0.5190 | 0.0000 | 741.0948 |

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

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

User Defined Equipment

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

11.0 Vegetation

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

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1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------------|----------|---------------|-------------|--------------------|------------|
| Condo/Townhouse High Rise | 7,000.00 | Dwelling Unit | 109.38 | 7,000,000.00 | 20020 |
| General Office Building | 2,500.00 | 1000sqft | 57.39 | 2,500,000.00 | 0 |
| Industrial Park | 500.00 | 1000sqft | 11.48 | 500,000.00 | 0 |
| Hotel | 700.00 | Room | 23.33 | 1,016,400.00 | 0 |
| Strip Mall | 300.00 | 1000sqft | 6.89 | 300,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2040 |
| Utility Company | Pacific Gas and Electric Company | | | | |
| CO2 Intensity (lb/MWhr) | 41.06 | CH4 Intensity (lb/MWhr) | 0.007 | N2O Intensity (lb/MWhr) | 0.001 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Milpitas Metro Specific Plan Ops emissions only. Mobile emissions are in separate spreadsheet. Elec. emissions extrapolated to 2040 RPS.

Land Use - MMSP 2040 buildout, refer to Project Description.

Construction Phase - Ops only.

Grading - Ops only.

Trips and VMT - Ops only.

Architectural Coating - Ops only.

Vehicle Trips - Mobile emissions have been calculated in a separate worksheet.

Woodstoves - no wood burning allowed.

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

Area Mitigation - Mitigation - required low VOC paint of 10 g/L. All electric landscaping equipment.

Water Mitigation - CalGreen Code requirement.

Waste Mitigation - AB 341 requirement for post 2020.

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---|---------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 2,158,200.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 6,474,600.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 4,725,000.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 14,175,000.00 | 0.00 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 10 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 10 |
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblAreaMitigation | UseLowVOCPaintParkingValue | 150 | 0 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 150 | 10 |
| tblAreaMitigation | UseLowVOCPaintResidentialInteriorValue | 100 | 10 |
| tblConstructionPhase | NumDays | 330.00 | 0.00 |
| tblConstructionPhase | NumDays | 4,650.00 | 0.00 |
| tblConstructionPhase | NumDays | 300.00 | 0.00 |
| tblConstructionPhase | NumDays | 465.00 | 0.00 |
| tblConstructionPhase | NumDays | 330.00 | 0.00 |
| tblConstructionPhase | NumDays | 180.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 12/21/2063 | 9/15/2062 |
| tblConstructionPhase | PhaseEndDate | 6/10/2061 | 8/14/2043 |
| tblConstructionPhase | PhaseEndDate | 2/22/2041 | 12/30/2039 |
| tblConstructionPhase | PhaseEndDate | 8/14/2043 | 11/1/2041 |
| tblConstructionPhase | PhaseEndDate | 9/15/2062 | 6/10/2061 |
| tblConstructionPhase | PhaseEndDate | 11/1/2041 | 2/22/2041 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberWood | 1,190.00 | 0.00 |

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| | | | |
|---------------------------|--------------------|----------|-------|
| tblProjectCharacteristics | CH4IntensityFactor | 0.033 | 0.007 |
| tblProjectCharacteristics | CO2IntensityFactor | 203.98 | 41.06 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004 | 0.001 |
| tblTripsAndVMT | VendorTripNumber | 1,456.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 18.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 20.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 6,573.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,315.00 | 0.00 |
| tblVehicleTrips | ST_TR | 4.91 | 0.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 8.19 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | SU_TR | 4.09 | 0.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 5.95 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | WD_TR | 5.44 | 0.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 8.36 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

2.0 Emissions Summary

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

| | | | | | | | | | | | | | | | | |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | ROG | NOx | CO | SO2 | 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 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| | | Highest | | |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|--------------------|--------------------|-----------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 52.9388 | 0.7108 | 51.8322 | 3.4700e-003 | | 0.2975 | 0.2975 | | 0.2975 | 0.2975 | 0.0000 | 216.0543 | 216.0543 | 0.0835 | 2.4000e-003 | 218.8582 |
| Energy | 0.8229 | 7.3080 | 5.0182 | 0.0449 | | 0.5685 | 0.5685 | | 0.5685 | 0.5685 | 0.0000 | 9,838.9313 | 9,838.9313 | 0.4451 | 0.1906 | 9,906.8548 |
| 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 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,393.1777 | 0.0000 | 1,393.1777 | 82.3344 | 0.0000 | 3,451.5389 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 335.0252 | 143.9338 | 478.9589 | 34.4348 | 0.8160 | 1,583.0000 |
| Total | 53.7617 | 8.0188 | 56.8504 | 0.0484 | 0.0000 | 0.8660 | 0.8660 | 0.0000 | 0.8660 | 0.8660 | 1,728.2029 | 10,198.9194 | 11,927.1223 | 117.2979 | 1.0090 | 15,160.2518 |

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Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 45.6565 | 0.4754 | 39.3367 | 1.7800e-003 | | 0.2151 | 0.2151 | | 0.2151 | 0.2151 | 0.0000 | 59.45 | 59.45 | 0.04 | 0.00 | 60.51 |
| Energy | 0.8229 | 7.3080 | 5.0182 | 0.0449 | | 0.5685 | 0.5685 | | 0.5685 | 0.5685 | 0.0000 | 9,838.93 | 9,838.93 | 0.45 | 0.19 | 9,906.85 |
| 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 | 0.00 | 0.00 | 0.00 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 348.29 | 0.0000 | 348.29 | 20.58 | 0.00 | 862.88 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 268.02 | 120.36 | 388.38 | 27.55 | 0.65 | 1,271.67 |
| Total | 46.4794 | 7.7834 | 44.3549 | 0.0467 | 0.0000 | 0.7836 | 0.7836 | 0.0000 | 0.7836 | 0.7836 | 616.3146 | 10,018.7410 | 10,635.0556 | 48.6199 | 0.8435 | 12,101.9216 |

| | ROG | NOx | CO | SO2 | 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 | 13.55 | 2.94 | 21.98 | 3.50 | 0.00 | 9.52 | 9.52 | 0.00 | 9.52 | 9.52 | 64.34 | 1.77 | 10.83 | 58.55 | 16.40 | 20.17 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/1/2040 | 12/30/2039 | 5 | 0 | |
| 2 | Site Preparation | Site Preparation | 2/23/2041 | 2/22/2041 | 5 | 0 | |
| 3 | Grading | Grading | 11/2/2041 | 11/1/2041 | 5 | 0 | |
| 4 | Building Construction | Building Construction | 8/15/2043 | 8/14/2043 | 5 | 0 | |

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| | | | | | | |
|---|-----------------------|-----------------------|-----------|-----------|---|---|
| 5 | Paving | Paving | 6/11/2061 | 6/10/2061 | 5 | 0 |
| 6 | Architectural Coating | Architectural Coating | 9/16/2062 | 9/15/2062 | 5 | 0 |

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 |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

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Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction Off-Site

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

3.4 Grading - 2041

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Unmitigated Construction Off-Site

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction Off-Site

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

3.5 Building Construction - 2043

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Unmitigated Construction Off-Site

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

3.6 Paving - 2061

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Paving | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Paving | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

3.7 Architectural Coating - 2062

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| | | | | | |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | | | |
|---------------------------|-------------|-------------|-------------|
| Condo/Townhouse High Rise | 0.00 | 0.00 | 0.00 |
| General Office Building | 0.00 | 0.00 | 0.00 |
| Hotel | 0.00 | 0.00 | 0.00 |
| Industrial Park | 0.00 | 0.00 | 0.00 |
| Strip Mall | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|---------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse High Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Hotel | 9.50 | 7.30 | 7.30 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Industrial Park | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 9.50 | 7.30 | 7.30 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|
| Condo/Townhouse High Rise | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.00263 |
| General Office Building | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.00263 |
| Hotel | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.00263 |
| Industrial Park | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.00263 |
| Strip Mall | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.00263 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,695.4069 | 1,695.4069 | 0.2890 | 0.0413 | 1,714.9376 |
| Electricity Unmitigated | | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,695.4069 | 1,695.4069 | 0.2890 | 0.0413 | 1,714.9376 |
| Natural Gas Mitigated | 0.8229 | 7.3080 | 5.0182 | 0.0449 | | 0.5685 | 0.5685 | | 0.5685 | 0.5685 | 0.0000 | 8,143.5244 | 8,143.5244 | 0.1561 | 0.1493 | 8,191.9173 |
| Natural Gas Unmitigated | 0.8229 | 7.3080 | 5.0182 | 0.0449 | | 0.5685 | 0.5685 | | 0.5685 | 0.5685 | 0.0000 | 8,143.5244 | 8,143.5244 | 0.1561 | 0.1493 | 8,191.9173 |

5.2 Energy by Land Use - Natural Gas Unmitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Condo/Townhouse High Rise | 5.86718e+007 | 0.3164 | 2.7035 | 1.1504 | 0.0173 | | 0.2186 | 0.2186 | | 0.2186 | 0.2186 | 0.0000 | 3,130.9486 | 3,130.9486 | 0.0600 | 0.0574 | 3,149.5542 |
| General Office Building | 4.05e+007 | 0.2184 | 1.9853 | 1.6677 | 0.0119 | | 0.1509 | 0.1509 | | 0.1509 | 0.1509 | 0.0000 | 2,161.2342 | 2,161.2342 | 0.0414 | 0.0396 | 2,174.0774 |
| Hotel | 4.46301e+007 | 0.2407 | 2.1878 | 1.8377 | 0.0131 | | 0.1663 | 0.1663 | | 0.1663 | 0.1663 | 0.0000 | 2,381.6334 | 2,381.6334 | 0.0457 | 0.0437 | 2,395.7862 |
| Industrial Park | 8.1e+006 | 0.0437 | 0.3971 | 0.3335 | 2.3800e-003 | | 0.0302 | 0.0302 | | 0.0302 | 0.0302 | 0.0000 | 432.2469 | 432.2469 | 8.2800e-003 | 7.9200e-003 | 434.8155 |
| Strip Mall | 702000 | 3.7900e-003 | 0.0344 | 0.0289 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.4614 | 37.4614 | 7.2000e-004 | 6.9000e-004 | 37.6840 |
| Total | | 0.8229 | 7.3080 | 5.0182 | 0.0449 | | 0.5685 | 0.5685 | | 0.5685 | 0.5685 | 0.0000 | 8,143.5244 | 8,143.5244 | 0.1561 | 0.1493 | 8,191.9173 |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

Mitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Condo/Townhouse High Rise | 5.86718e+007 | 0.3164 | 2.7035 | 1.1504 | 0.0173 | | 0.2186 | 0.2186 | | 0.2186 | 0.2186 | 0.0000 | 3,130.9486 | 3,130.9486 | 0.0600 | 0.0574 | 3,149.5542 |
| General Office Building | 4.05e+007 | 0.2184 | 1.9853 | 1.6677 | 0.0119 | | 0.1509 | 0.1509 | | 0.1509 | 0.1509 | 0.0000 | 2,161.2342 | 2,161.2342 | 0.0414 | 0.0396 | 2,174.0774 |
| Hotel | 4.46301e+007 | 0.2407 | 2.1878 | 1.8377 | 0.0131 | | 0.1663 | 0.1663 | | 0.1663 | 0.1663 | 0.0000 | 2,381.6334 | 2,381.6334 | 0.0457 | 0.0437 | 2,395.7862 |
| Industrial Park | 8.1e+006 | 0.0437 | 0.3971 | 0.3335 | 2.3800e-003 | | 0.0302 | 0.0302 | | 0.0302 | 0.0302 | 0.0000 | 432.2469 | 432.2469 | 8.2800e-003 | 7.9200e-003 | 434.8155 |
| Strip Mall | 702000 | 3.7900e-003 | 0.0344 | 0.0289 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.4614 | 37.4614 | 7.2000e-004 | 6.9000e-004 | 37.6840 |
| Total | | 0.8229 | 7.3080 | 5.0182 | 0.0449 | | 0.5685 | 0.5685 | | 0.5685 | 0.5685 | 0.0000 | 8,143.5244 | 8,143.5244 | 0.1561 | 0.1493 | 8,191.9173 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|-----------------|-----------|--------|--------|----------|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 2.88826e+007 | 537.9246 | 0.0917 | 0.0131 | 544.1214 |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | | | | | |
|-------------------------|--------------|-------------------|---------------|---------------|-------------------|
| General Office Building | 4.2925e+007 | 799.4568 | 0.1363 | 0.0195 | 808.6663 |
| Hotel | 7.52136e+006 | 140.0816 | 0.0239 | 3.4100e-003 | 141.6953 |
| Industrial Park | 8.585e+006 | 159.8914 | 0.0273 | 3.8900e-003 | 161.7333 |
| Strip Mall | 3.117e+006 | 58.0526 | 9.9000e-003 | 1.4100e-003 | 58.7213 |
| Total | | 1,695.4069 | 0.2890 | 0.0413 | 1,714.9375 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 2.88826e+007 | 537.9246 | 0.0917 | 0.0131 | 544.1214 |
| General Office Building | 4.2925e+007 | 799.4568 | 0.1363 | 0.0195 | 808.6663 |
| Hotel | 7.52136e+006 | 140.0816 | 0.0239 | 3.4100e-003 | 141.6953 |
| Industrial Park | 8.585e+006 | 159.8914 | 0.0273 | 3.8900e-003 | 161.7333 |
| Strip Mall | 3.117e+006 | 58.0526 | 9.9000e-003 | 1.4100e-003 | 58.7213 |
| Total | | 1,695.4069 | 0.2890 | 0.0413 | 1,714.9375 |

6.0 Area Detail

6.1 Mitigation Measures Area

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 45.6565 | 0.4754 | 39.3367 | 1.7800e-003 | | 0.2151 | 0.2151 | | 0.2151 | 0.2151 | 0.0000 | 59.4486 | 59.4486 | 0.0424 | 0.0000 | 60.5079 |
| Unmitigated | 52.9388 | 0.7108 | 51.8322 | 3.4700e-003 | | 0.2975 | 0.2975 | | 0.2975 | 0.2975 | 0.0000 | 216.0543 | 216.0543 | 0.0835 | 2.4000e-003 | 218.8582 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | | | | | | | | | | | | | | | | |
|-----------------------|----------------|---------------|----------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Architectural Coating | 7.1783 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 44.1962 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0133 | 0.1132 | 0.0482 | 7.2000e-004 | | 9.1500e-003 | 9.1500e-003 | | 9.1500e-003 | 9.1500e-003 | 0.0000 | 131.0813 | 131.0813 | 2.5100e-003 | 2.4000e-003 | 131.8602 |
| Landscaping | 1.5511 | 0.5976 | 51.7840 | 2.7500e-003 | | 0.2884 | 0.2884 | | 0.2884 | 0.2884 | 0.0000 | 84.9730 | 84.9730 | 0.0810 | 0.0000 | 86.9980 |
| Total | 52.9388 | 0.7108 | 51.8322 | 3.4700e-003 | | 0.2975 | 0.2975 | | 0.2975 | 0.2975 | 0.0000 | 216.0543 | 216.0543 | 0.0835 | 2.4000e-003 | 218.8582 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.6381 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 44.1962 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.8223 | 0.4754 | 39.3367 | 1.7800e-003 | | 0.2151 | 0.2151 | | 0.2151 | 0.2151 | 0.0000 | 59.4486 | 59.4486 | 0.0424 | 0.0000 | 60.5079 |
| Total | 45.6565 | 0.4754 | 39.3367 | 1.7800e-003 | | 0.2151 | 0.2151 | | 0.2151 | 0.2151 | 0.0000 | 59.4486 | 59.4486 | 0.0424 | 0.0000 | 60.5079 |

7.0 Water Detail

7.1 Mitigation Measures Water

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|------------|
| Category | MT/yr | | | |
| Mitigated | 388.3812 | 27.5488 | 0.6529 | 1,271.6741 |
| Unmitigated | 478.9589 | 34.4348 | 0.8160 | 1,583.0000 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|------------------------------|----------------------|-----------|---------|--------|----------|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 456.078 / 287.528 | 209.3975 | 14.8723 | 0.3525 | 686.2463 |
| General Office Building | 444.334 / 272.334 | 203.4979 | 14.4893 | 0.3434 | 668.0621 |
| Hotel | 17.7567 / 1.97297 | 7.5515 | 0.5789 | 0.0137 | 26.1100 |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | | | | | |
|-----------------|-------------------|-----------------|----------------|---------------|-------------------|
| Industrial Park | 115.625 / 0 | 48.3348 | 3.7696 | 0.0893 | 169.1709 |
| Strip Mall | 22.2218 / 13.6198 | 10.1772 | 0.7246 | 0.0172 | 33.4107 |
| Total | | 478.9589 | 34.4348 | 0.8160 | 1,582.9999 |

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|-----------------|----------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse | 364.863 / 269.988 | 170.1233 | 11.8983 | 0.2821 | 551.6323 |
| High Rise | | | | | |
| General Office Building | 355.467 / 255.722 | 165.2659 | 11.5919 | 0.2748 | 536.9457 |
| Hotel | 14.2054 / 1.85262 | 6.0591 | 0.4632 | 0.0110 | 20.9061 |
| Industrial Park | 92.5 / 0 | 38.6679 | 3.0157 | 0.0714 | 135.3367 |
| Strip Mall | 17.7774 / 12.789 | 8.2652 | 0.5797 | 0.0137 | 26.8534 |
| Total | | 388.3812 | 27.5488 | 0.6529 | 1,271.6741 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|--------|------------|
| | MT/yr | | | |
| Mitigated | 348.2944 | 20.5836 | 0.0000 | 862.8847 |
| Unmitigated | 1,393.1777 | 82.3344 | 0.0000 | 3,451.5389 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|------------------------------|----------------|-------------------|----------------|---------------|-------------------|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 3220 | 653.6309 | 38.6285 | 0.0000 | 1,619.3429 |
| General Office Building | 2325 | 471.9540 | 27.8917 | 0.0000 | 1,169.2460 |
| Hotel | 383.25 | 77.7963 | 4.5976 | 0.0000 | 192.7370 |
| Industrial Park | 620 | 125.8544 | 7.4378 | 0.0000 | 311.7989 |
| Strip Mall | 315 | 63.9422 | 3.7789 | 0.0000 | 158.4140 |
| Total | | 1,393.1777 | 82.3344 | 0.0000 | 3,451.5389 |

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 805 | 163.4077 | 9.6571 | 0.0000 | 404.8357 |
| General Office Building | 581.25 | 117.9885 | 6.9729 | 0.0000 | 292.3115 |
| Hotel | 95.8125 | 19.4491 | 1.1494 | 0.0000 | 48.1843 |
| Industrial Park | 155 | 31.4636 | 1.8595 | 0.0000 | 77.9497 |
| Strip Mall | 78.75 | 15.9855 | 0.9447 | 0.0000 | 39.6035 |
| Total | | 348.2944 | 20.5836 | 0.0000 | 862.8847 |

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

Milpitas Metro Specific Plan - Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

User Defined Equipment

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

11.0 Vegetation

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile)

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 2,500.00 | 1000sqft | 57.39 | 2,500,000.00 | 0 |
| Industrial Park | 500.00 | 1000sqft | 11.48 | 500,000.00 | 0 |
| Hotel | 700.00 | Room | 23.33 | 1,016,400.00 | 0 |
| Condo/Townhouse High Rise | 7,000.00 | Dwelling Unit | 109.38 | 7,000,000.00 | 20020 |
| Strip Mall | 300.00 | 1000sqft | 6.89 | 300,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2040 |
| Utility Company | Pacific Gas and Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 41.06 | CH4 Intensity (lb/MW hr) | 0.007 | N2O Intensity (lb/MW hr) | 0.001 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Milpitas Metro Specific Plan Ops emissions only. Mobile emissions are in separate spreadsheet. Elec. emissions extrapolated to 2040 RPS.

Land Use - MMSP 2040 buildout, refer to Project Description.

Construction Phase - Ops only.

Trips and VMT - Ops only.

Grading - Ops only.

Architectural Coating - Ops only.

Vehicle Trips - Mobile emissions have been calculated in a separate worksheet.

Woodstoves - no wood burning allowed.

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

Area Mitigation - Mitigation - required low VOC paint of 10 g/L. All electric landscaping equipment.

Water Mitigation - CalGreen Code requirement.

Waste Mitigation - AB 341 requirement for post 2020.

Energy Use - Mitigation - No Natural Gas infrastructure.

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 2,158,200.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 6,474,600.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 4,725,000.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 14,175,000.00 | 0.00 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 10 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 10 |
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblAreaMitigation | UseLowVOCPaintParkingValue | 150 | 0 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 150 | 10 |
| tblAreaMitigation | UseLowVOCPaintResidentialInteriorValue | 100 | 10 |
| tblConstructionPhase | NumDays | 300.00 | 0.00 |
| tblConstructionPhase | NumDays | 180.00 | 0.00 |
| tblConstructionPhase | NumDays | 465.00 | 0.00 |
| tblConstructionPhase | NumDays | 4,650.00 | 0.00 |
| tblConstructionPhase | NumDays | 330.00 | 0.00 |
| tblConstructionPhase | NumDays | 330.00 | 0.00 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | NT24NG | 0.06 | 0.00 |
| tblEnergyUse | NT24NG | 4.75 | 0.00 |
| tblEnergyUse | NT24NG | 0.06 | 0.00 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblEnergyUse | T24NG | 16.14 | 0.00 |
| tblEnergyUse | T24NG | 39.16 | 0.00 |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | |
|---------------------------|--------------------|----------|-------|
| tblEnergyUse | T24NG | 16.14 | 0.00 |
| tblEnergyUse | T24NG | 2.34 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberWood | 1,190.00 | 0.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.033 | 0.007 |
| tblProjectCharacteristics | CO2IntensityFactor | 203.98 | 41.06 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004 | 0.001 |
| tblTripsAndVMT | VendorTripNumber | 1,456.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 18.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 20.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 6,573.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,315.00 | 0.00 |
| tblVehicleTrips | ST_TR | 4.91 | 0.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 8.19 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | SU_TR | 4.09 | 0.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 5.95 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | WD_TR | 5.44 | 0.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 8.36 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 2043 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0737 | 0.0000 | 0.0000 | 0.0737 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2061 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.1164 | 0.0000 | 0.0000 | 0.1164 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2062 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 7.4300e-003 | 0.0000 | 0.0000 | 7.4300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4276 | 0.0000 | 0.0000 | 0.4276 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | ROG | NOx | CO | SO2 | 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 |

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 | 301.12 | 26.96 | 584.02 | 0.16 | | 4.85 | 4.85 | | 4.85 | 4.85 | 0.0000 | 26,981.9180 | 26,981.9180 | 1.4892 | 0.4756 | 27,160.8744 |
| 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 | 0.0000 |
| Total | 301.1162 | 26.9609 | 584.0248 | 0.1602 | 0.0000 | 4.8470 | 4.8470 | 0.0000 | 4.8470 | 4.8470 | 0.0000 | 26,981.9180 | 26,981.9180 | 1.4892 | 0.4756 | 27,160.8744 |

Mitigated Operational

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------------|---------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 254.80 | 5.28 | 437.07 | 0.02 | | 2.39 | 2.39 | | 2.39 | 2.39 | 0.0000 | 728.1210 | 728.1210 | 0.5190 | 0.0000 | 741.0948 |
| 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 | 0.0000 |
| Total | 254.8036 | 5.2824 | 437.0738 | 0.0198 | 0.0000 | 2.3900 | 2.3900 | 0.0000 | 2.3900 | 2.3900 | 0.0000 | 728.1210 | 728.1210 | 0.5190 | 0.0000 | 741.0948 |

| | ROG | NOx | CO | SO2 | 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 | 15.38 | 80.41 | 25.16 | 87.64 | 0.00 | 50.69 | 50.69 | 0.00 | 50.69 | 50.69 | 0.00 | 97.30 | 97.30 | 65.15 | 100.00 | 97.27 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/1/2040 | 12/30/2039 | 5 | 0 | |
| 2 | Site Preparation | Site Preparation | 2/23/2041 | 2/22/2041 | 5 | 0 | |
| 3 | Grading | Grading | 11/2/2041 | 11/1/2041 | 5 | 0 | |
| 4 | Building Construction | Building Construction | 8/15/2043 | 8/14/2043 | 5 | 0 | |
| 5 | Paving | Paving | 6/11/2061 | 6/10/2061 | 5 | 0 | |
| 6 | Architectural Coating | Architectural Coating | 9/16/2062 | 9/15/2062 | 5 | 0 | |

Acres of Grading (Site Preparation Phase): 0

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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 |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| 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 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 4 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2041

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Unmitigated Construction Off-Site

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

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

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction Off-Site

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

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

3.4 Grading - 2041

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Unmitigated Construction Off-Site

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

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

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction Off-Site

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

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

3.5 Building Construction - 2043

Unmitigated Construction On-Site

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

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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction On-Site

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

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

3.6 Paving - 2061

Unmitigated Construction On-Site

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

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 | | | | | |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction On-Site

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

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

3.7 Architectural Coating - 2062

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

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 | | | | | |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 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 | | | | | |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |

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 | 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 | 0.0000 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|---------------------------|-------------------------|----------|--------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| Condo/Townhouse High Rise | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Hotel | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | | | | | |
|-------|------|------|------|--|--|
| Total | 0.00 | 0.00 | 0.00 | | |
|-------|------|------|------|--|--|

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|---------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse High Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Hotel | 9.50 | 7.30 | 7.30 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Industrial Park | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 9.50 | 7.30 | 7.30 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| Condo/Townhouse High Rise | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| General Office Building | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| Hotel | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| Industrial Park | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| Strip Mall | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |

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 |
|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| 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 |
| 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 | | | | | |
| Condo/Townhouse High 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 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 |
| Hotel | 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 |
| Industrial Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 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 |

Mitigated

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse High 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 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 |
| Hotel | 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 |
| Industrial Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 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

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------|---------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 254.8036 | 5.2824 | 437.0738 | 0.0198 | | 2.3900 | 2.3900 | | 2.3900 | 2.3900 | 0.0000 | 728.1210 | 728.1210 | 0.5190 | 0.0000 | 741.0948 |
| Unmitigated | 301.1162 | 26.9609 | 584.0248 | 0.1602 | | 4.8470 | 4.8470 | | 4.8470 | 4.8470 | 0.0000 | 26,981.9180 | 26,981.9180 | 1.4892 | 0.4756 | 27,160.8744 |

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 | 39.3332 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 242.1710 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2.3779 | 20.3206 | 8.6471 | 0.1297 | | 1.6429 | 1.6429 | | 1.6429 | 1.6429 | 0.0000 | 25,941.1765 | 25,941.1765 | 0.4972 | 0.4756 | 26,095.3319 |
| Landscaping | 17.2341 | 6.6403 | 575.3777 | 0.0305 | | 3.2040 | 3.2040 | | 3.2040 | 3.2040 | | 1,040.7415 | 1,040.7415 | 0.9920 | | 1,065.5425 |
| Total | 301.1162 | 26.9609 | 584.0248 | 0.1602 | | 4.8470 | 4.8470 | | 4.8470 | 4.8470 | 0.0000 | 26,981.9180 | 26,981.9180 | 1.4893 | 0.4756 | 27,160.8744 |

Mitigated

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 3.4963 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 242.1710 | | | | | 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 | 9.1364 | 5.2824 | 437.0738 | 0.0198 | | 2.3900 | 2.3900 | | 2.3900 | 2.3900 | | 728.1210 | 728.1210 | 0.5190 | | 741.0948 |
| Total | 254.8036 | 5.2824 | 437.0738 | 0.0198 | | 2.3900 | 2.3900 | | 2.3900 | 2.3900 | 0.0000 | 728.1210 | 728.1210 | 0.5190 | 0.0000 | 741.0948 |

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile)

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 2,500.00 | 1000sqft | 57.39 | 2,500,000.00 | 0 |
| Industrial Park | 500.00 | 1000sqft | 11.48 | 500,000.00 | 0 |
| Hotel | 700.00 | Room | 23.33 | 1,016,400.00 | 0 |
| Condo/Townhouse High Rise | 7,000.00 | Dwelling Unit | 109.38 | 7,000,000.00 | 20020 |
| Strip Mall | 300.00 | 1000sqft | 6.89 | 300,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2040 |
| Utility Company | Pacific Gas and Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 41.06 | CH4 Intensity (lb/MW hr) | 0.007 | N2O Intensity (lb/MW hr) | 0.001 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Milpitas Metro Specific Plan Ops emissions only. Mobile emissions are in separate spreadsheet. Elec. emissions extrapolated to 2040 RPS.

Land Use - MMSP 2040 buildout, refer to Project Description.

Construction Phase - Ops only.

Trips and VMT - Ops only.

Grading - Ops only.

Architectural Coating - Ops only.

Vehicle Trips - Mobile emissions have been calculated in a separate worksheet.

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

Woodstoves - no wood burning allowed.

Area Mitigation - Mitigation - required low VOC paint of 10 g/L. All electric landscaping equipment.

Water Mitigation - CalGreen Code requirement.

Waste Mitigation - AB 341 requirement for post 2020.

Energy Use - Mitigation - No Natural Gas infrastructure.

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 2,158,200.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 6,474,600.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 4,725,000.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 14,175,000.00 | 0.00 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 10 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 10 |
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblAreaMitigation | UseLowVOCPaintParkingValue | 150 | 0 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 150 | 10 |
| tblAreaMitigation | UseLowVOCPaintResidentialInteriorValue | 100 | 10 |
| tblConstructionPhase | NumDays | 300.00 | 0.00 |
| tblConstructionPhase | NumDays | 180.00 | 0.00 |
| tblConstructionPhase | NumDays | 465.00 | 0.00 |
| tblConstructionPhase | NumDays | 4,650.00 | 0.00 |
| tblConstructionPhase | NumDays | 330.00 | 0.00 |
| tblConstructionPhase | NumDays | 330.00 | 0.00 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | NT24NG | 0.06 | 0.00 |
| tblEnergyUse | NT24NG | 4.75 | 0.00 |
| tblEnergyUse | NT24NG | 0.06 | 0.00 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblEnergyUse | T24NG | 16.14 | 0.00 |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | | | |
|---------------------------|--------------------|----------|-------|
| tblEnergyUse | T24NG | 39.16 | 0.00 |
| tblEnergyUse | T24NG | 16.14 | 0.00 |
| tblEnergyUse | T24NG | 2.34 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberWood | 1,190.00 | 0.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.033 | 0.007 |
| tblProjectCharacteristics | CO2IntensityFactor | 203.98 | 41.06 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004 | 0.001 |
| tblTripsAndVMT | VendorTripNumber | 1,456.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 18.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 20.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 6,573.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,315.00 | 0.00 |
| tblVehicleTrips | ST_TR | 4.91 | 0.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 8.19 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | SU_TR | 4.09 | 0.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 5.95 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | WD_TR | 5.44 | 0.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 8.36 | 0.00 |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | | | |
|-----------------|-------------------|--------|------|
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2041 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2043 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2061 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2062 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 2041 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2043 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2061 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2062 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | ROG | NOx | CO | SO2 | 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 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| | | Highest | | |

2.2 Overall Operational
Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|---------|-------------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 52.9388 | 0.7108 | 51.8322 | 3.4700e-003 | | 0.2975 | 0.2975 | | 0.2975 | 0.2975 | 0.0000 | 216.0543 | 216.0543 | 0.0835 | 2.4000e-003 | 218.8582 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1,695.4069 | 1,695.4069 | 0.2890 | 0.0413 | 1,714.9376 |
| 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 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,393.1777 | 0.0000 | 1,393.1777 | 82.3344 | 0.0000 | 3,451.5389 |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | | | | | | | | | | | | | | | | |
|--------------|----------------|---------------|----------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|-------------------|-----------------|---------------|-------------------|
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 335.0252 | 143.9338 | 478.9589 | 34.4348 | 0.8160 | 1,583.0000 |
| Total | 52.9388 | 0.7108 | 51.8322 | 3.4700e-003 | 0.0000 | 0.2975 | 0.2975 | 0.0000 | 0.2975 | 0.2975 | 1,728.2029 | 2,055.3950 | 3,783.5979 | 117.1418 | 0.8597 | 6,968.3345 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 45.6565 | 0.4754 | 39.3367 | 1.7800e-003 | | 0.2151 | 0.2151 | | 0.2151 | 0.2151 | 0.0000 | 59.45 | 59.45 | 0.04 | 0.00 | 60.51 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1695.41 | 1695.41 | 0.29 | 0.04 | 1714.94 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 348.29 | 0.00 | 348.29 | 20.58 | 0.00 | 862.88 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 268.02 | 120.36 | 388.38 | 27.55 | 0.65 | 1271.67 |
| Total | 45.6565 | 0.4754 | 39.3367 | 1.7800e-003 | 0.0000 | 0.2151 | 0.2151 | 0.0000 | 0.2151 | 0.2151 | 616.3146 | 1,875.2166 | 2,491.5312 | 48.4638 | 0.6942 | 3,910.0043 |

| | ROG | NOx | CO | SO2 | 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 | 13.76 | 33.12 | 24.11 | 48.70 | 0.00 | 27.70 | 27.70 | 0.00 | 27.70 | 27.70 | 64.34 | 8.77 | 34.15 | 58.63 | 19.25 | 43.89 |

3.0 Construction Detail

Construction Phase

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

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/1/2040 | 12/30/2039 | 5 | 0 | |
| 2 | Site Preparation | Site Preparation | 2/23/2041 | 2/22/2041 | 5 | 0 | |
| 3 | Grading | Grading | 11/2/2041 | 11/1/2041 | 5 | 0 | |
| 4 | Building Construction | Building Construction | 8/15/2043 | 8/14/2043 | 5 | 0 | |
| 5 | Paving | Paving | 6/11/2061 | 6/10/2061 | 5 | 0 | |
| 6 | Architectural Coating | Architectural Coating | 9/16/2062 | 9/15/2062 | 5 | 0 | |

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 |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| 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 |

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|---------------------------|-------------------------|-------------|-------------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| Condo/Townhouse High Rise | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Hotel | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|---------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse High Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Hotel | 9.50 | 7.30 | 7.30 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Industrial Park | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 9.50 | 7.30 | 7.30 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| Condo/Townhouse High Rise | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| General Office Building | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| Hotel | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| Industrial Park | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |
| Strip Mall | 0.554371 | 0.060330 | 0.185934 | 0.122323 | 0.022029 | 0.006101 | 0.011187 | 0.006846 | 0.000892 | 0.000437 | 0.025991 | 0.000924 | 0.0026 |

5.0 Energy Detail

Historical Energy Use: N

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

| | | | | | | | | | | | | | | | | | |
|-----------------|---|---------------|---------------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Industrial Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 |

Mitigated

| Land Use | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Condo/Townhouse | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| High Rise | | | | | | | | | | | | | | | | | |
| 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 | 0.0000 |
| Hotel | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Industrial Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 | 0.0000 |

5.3 Energy by Land Use - Electricity

Unmitigated

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

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 2.88826e+007 | 537.9246 | 0.0917 | 0.0131 | 544.1214 |
| General Office Building | 4.2925e+007 | 799.4568 | 0.1363 | 0.0195 | 808.6663 |
| Hotel | 7.52136e+006 | 140.0816 | 0.0239 | 3.4100e-003 | 141.6953 |
| Industrial Park | 8.585e+006 | 159.8914 | 0.0273 | 3.8900e-003 | 161.7333 |
| Strip Mall | 3.117e+006 | 58.0526 | 9.9000e-003 | 1.4100e-003 | 58.7213 |
| Total | | 1,695.4069 | 0.2890 | 0.0413 | 1,714.9375 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 2.88826e+007 | 537.9246 | 0.0917 | 0.0131 | 544.1214 |
| General Office Building | 4.2925e+007 | 799.4568 | 0.1363 | 0.0195 | 808.6663 |
| Hotel | 7.52136e+006 | 140.0816 | 0.0239 | 3.4100e-003 | 141.6953 |
| Industrial Park | 8.585e+006 | 159.8914 | 0.0273 | 3.8900e-003 | 161.7333 |
| Strip Mall | 3.117e+006 | 58.0526 | 9.9000e-003 | 1.4100e-003 | 58.7213 |
| Total | | 1,695.4069 | 0.2890 | 0.0413 | 1,714.9375 |

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

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 45.6565 | 0.4754 | 39.3367 | 1.7800e-003 | | 0.2151 | 0.2151 | | 0.2151 | 0.2151 | 0.0000 | 59.4486 | 59.4486 | 0.0424 | 0.0000 | 60.5079 |
| Unmitigated | 52.9388 | 0.7108 | 51.8322 | 3.4700e-003 | | 0.2975 | 0.2975 | | 0.2975 | 0.2975 | 0.0000 | 216.0543 | 216.0543 | 0.0835 | 2.4000e-003 | 218.8582 |

6.2 Area by SubCategory

Unmitigated

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|--------------------|-----------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 7.1783 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 44.1962 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0133 | 0.1132 | 0.0482 | 7.2000e-004 | | 9.1500e-003 | 9.1500e-003 | | 9.1500e-003 | 9.1500e-003 | 0.0000 | 131.0813 | 131.0813 | 2.5100e-003 | 2.4000e-003 | 131.8602 |
| Landscaping | 1.5511 | 0.5976 | 51.7840 | 2.7500e-003 | | 0.2884 | 0.2884 | | 0.2884 | 0.2884 | 0.0000 | 84.9730 | 84.9730 | 0.0810 | 0.0000 | 86.9980 |
| Total | 52.9388 | 0.7108 | 51.8322 | 3.4700e-003 | | 0.2975 | 0.2975 | | 0.2975 | 0.2975 | 0.0000 | 216.0543 | 216.0543 | 0.0835 | 2.4000e-003 | 218.8582 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.6381 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 44.1962 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.8223 | 0.4754 | 39.3367 | 1.7800e-003 | | 0.2151 | 0.2151 | | 0.2151 | 0.2151 | 0.0000 | 59.4486 | 59.4486 | 0.0424 | 0.0000 | 60.5079 |
| Total | 45.6565 | 0.4754 | 39.3367 | 1.7800e-003 | | 0.2151 | 0.2151 | | 0.2151 | 0.2151 | 0.0000 | 59.4486 | 59.4486 | 0.0424 | 0.0000 | 60.5079 |

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

7.0 Water Detail

7.1 Mitigation Measures Water

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|------------|
| Category | MT/yr | | | |
| Mitigated | 388.3812 | 27.5488 | 0.6529 | 1,271.6741 |
| Unmitigated | 478.9589 | 34.4348 | 0.8160 | 1,583.0000 |

7.2 Water by Land Use

Unmitigated

| Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------|-----------|-----|-----|------|
| | | | | |

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

| Land Use | Mgal | MT/yr | | | |
|------------------------------|----------------------|-----------------|----------------|---------------|-------------------|
| Condo/Townhouse High Rise | 456.078 / 287.528 | 209.3975 | 14.8723 | 0.3525 | 686.2463 |
| General Office Building | 444.334 / 272.334 | 203.4979 | 14.4893 | 0.3434 | 668.0621 |
| Hotel | 17.7567 / 1.97297 | 7.5515 | 0.5789 | 0.0137 | 26.1100 |
| Industrial Park | 115.625 / 0 | 48.3348 | 3.7696 | 0.0893 | 169.1709 |
| Strip Mall | 22.2218 / 13.6198 | 10.1772 | 0.7246 | 0.0172 | 33.4107 |
| Total | | 478.9589 | 34.4348 | 0.8160 | 1,582.9999 |

Mitigated

| Indoor/Out door Use | Total CO2 | CH4 | N2O | CO2e | |
|------------------------------|----------------------|-----------------|----------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 364.863 / 269.988 | 170.1233 | 11.8983 | 0.2821 | 551.6323 |
| General Office Building | 355.467 / 255.722 | 165.2659 | 11.5919 | 0.2748 | 536.9457 |
| Hotel | 14.2054 / 1.85262 | 6.0591 | 0.4632 | 0.0110 | 20.9061 |
| Industrial Park | 92.5 / 0 | 38.6679 | 3.0157 | 0.0714 | 135.3367 |
| Strip Mall | 17.7774 / 12.789 | 8.2652 | 0.5797 | 0.0137 | 26.8534 |
| Total | | 388.3812 | 27.5488 | 0.6529 | 1,271.6741 |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|--------|------------|
| | MT/yr | | | |
| Mitigated | 348.2944 | 20.5836 | 0.0000 | 862.8847 |
| Unmitigated | 1,393.1777 | 82.3344 | 0.0000 | 3,451.5389 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|----------------|-----------|---------|--------|------------|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 3220 | 653.6309 | 38.6285 | 0.0000 | 1,619.3429 |
| General Office Building | 2325 | 471.9540 | 27.8917 | 0.0000 | 1,169.2460 |
| Hotel | 383.25 | 77.7963 | 4.5976 | 0.0000 | 192.7370 |

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

| | | | | | |
|-----------------|-----|-------------------|----------------|---------------|-------------------|
| Industrial Park | 620 | 125.8544 | 7.4378 | 0.0000 | 311.7989 |
| Strip Mall | 315 | 63.9422 | 3.7789 | 0.0000 | 158.4140 |
| Total | | 1,393.1777 | 82.3344 | 0.0000 | 3,451.5389 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse | 805 | 163.4077 | 9.6571 | 0.0000 | 404.8357 |
| High Rise | | | | | |
| General Office Building | 581.25 | 117.9885 | 6.9729 | 0.0000 | 292.3115 |
| Hotel | 95.8125 | 19.4491 | 1.1494 | 0.0000 | 48.1843 |
| Industrial Park | 155 | 31.4636 | 1.8595 | 0.0000 | 77.9497 |
| Strip Mall | 78.75 | 15.9855 | 0.9447 | 0.0000 | 39.6035 |
| Total | | 348.2944 | 20.5836 | 0.0000 | 862.8847 |

9.0 Operational Offroad

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

Milpitas Metro Specific Plan - Mit Operational Emissions (No Mobile) - Bay Area AQMD Air District, Annual

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Regional Operations Summary - Mobile Only

| Source | Daily Emissions (lb/day) | | | | | | | | | | GHG Emission (MT/yr) | | | |
|--------------------------------------|---------------------------|---------------|---------------|-------------|---------------|--------------|---------------|----------------|---------------|--------------|----------------------|-------------|-------------|------------------|
| | ROG | NOX | CO | SOX | Fugitive PM10 | Exhaust PM10 | Total PM10 | Fugitive PM2.5 | Exhaust PM2.5 | Total PM2.5 | CO2 | CH4 | N2O | CO2e |
| | 2015 - Existing MMSP Area | 355.47 | 966.37 | 3890.36 | 6.44 | 484.41 | 16.19 | 500.60 | 142.33 | 15.39 | 157.72 | 77563.44 | 4.72 | 5.23 |
| 2040 - No Project MMSP Area | 194.14 | 326.32 | 2205.35 | 9.83 | 1097.37 | 5.15 | 1102.52 | 274.67 | 4.86 | 279.52 | 118874.42 | 2.62 | 5.45 | 120562.53 |
| 2040 - Project MMSP Area | 264.69 | 441.68 | 2982.24 | 13.25 | 1478.94 | 6.95 | 1485.89 | 370.17 | 6.55 | 376.72 | 160256.56 | 3.55 | 7.36 | 162537.30 |
| 2040 - Project Only Emissions | 70.54 | 115.36 | 776.89 | 3.42 | 381.57 | 1.80 | 383.37 | 95.51 | 1.69 | 97.20 | 41,382.13 | 0.93 | 1.91 | 41,974.77 |

Notes:

1. Based off VMT and ADT data provided by W-Trans.
2. Assumed the EMFAC fleet mix based off the operational year.
3. Annual factor of 260 was applied for the daily VMT data.

Table 1: Milpitas Metro MMSP - Systemwide SB 743 VMT Forecasts

| Scenario | Area | Households | Population | Employees | ADT_Total | VMT_Total | VMT_HH_HBW | VMT_A_HW | VMT per capita | VMT per employee | VMT per Service | VMT total | Difference - 2 |
|------------------------------------|----------|------------|------------|-----------|-----------|-------------|-------------|------------|----------------|------------------|-----------------|-----------|------------------|
| 2015 - Existing MMSP TAZs | MMSP | 5,880 | 20,005 | 9,608 | 64,319 | 682,584 | 190,267 | 180,846 | 9.5 | 18.8 | 23.1 | 10.61 | |
| City | Milpitas | 20,122 | 68,867 | 41,934 | 266,723 | 3,096,575 | 990,010 | 834,353 | 14.4 | 19.9 | 27.9 | | |
| County - SC | 3 | 625,203 | 1,851,298 | 1,042,011 | 7,095,150 | 75,601,190 | 27,829,239 | 19,668,287 | 15.0 | 18.9 | 26.1 | | |
| Bay Area Region | 1 to 9 | 2,682,925 | 7,496,776 | 3,764,469 | 61,558 | 266,484,444 | 117,515,572 | 65,139,587 | 15.7 | 17.3 | 23.7 | | |
| 2040 - PLUM No-Project MMSP TAZs | MMSP | 12,559 | 42,564 | 20,213 | 132,169 | 1,548,069 | 318,675 | 397,831 | 7.5 | 19.7 | 24.7 | 11.712816 | |
| City | Milpitas | 27,129 | 92,499 | 67,810 | 386,718 | 4,897,095 | 1,098,363 | 1,401,265 | 11.9 | 20.7 | 30.5 | | |
| County - SC | 3 | 857,372 | 2,568,707 | 1,331,181 | 8,915,197 | 98,137,484 | 36,266,383 | 25,811,812 | 14.1 | 19.4 | 25.2 | | |
| Bay Area Region | 1 to 9 | 3,423,147 | 9,663,454 | 4,739,677 | 67,525 | 346,818,185 | 154,522,271 | 84,684,263 | 16.0 | 17.9 | 24.1 | | |
| 2040 - MMSP Plus Project MMSP TAZs | MMSP | 19,559 | 64,208 | 32,496 | 180,517 | 2,086,360 | 438,415 | 572,998 | 6.8 | 17.6 | 21.6 | 11.557671 | Households 7,000 |
| City | Milpitas | 31,829 | 106,450 | 74,224 | 418,749 | 5,184,950 | 1,166,298 | 1,488,767 | 11.0 | 20.1 | 28.7 | | |
| County - SC | 3 | 864,372 | 2,590,351 | 1,343,464 | 8,951,090 | 98,537,664 | 36,404,690 | 25,879,537 | 14.1 | 19.3 | 25.0 | | |
| Bay Area Region | 1 to 9 | 3,430,147 | 9,684,942 | 4,751,960 | 67,474 | 346,908,244 | 154,547,085 | 84,617,868 | 16.0 | 17.8 | 24.0 | | |

Note: MMSP TAZs cover a wider area than the MMSP

Region 90,058
 County 400,180
 City 287,855
 All 778,094

538,291 Plan

Table 2: 2015 Milpitas Metro MMSP - TAZ level VMT Forecasts

| MMSP Subarea | MMSP TAZ | 2015NOP Households | 2015NOP Population | 2015NOP Jobs | 2015NOP ADT | 2015NOP VMT_P | 2015NOP VMT_A | 2015NOP VMT Total | 2015NOP VMT_HH | 2015NOP VMT_A HW | 2015NOP VMT/Cap | 2015NOP VMT/Job | 2015NOP VMT/Service |
|---------------------|----------|--------------------|--------------------|--------------|-------------|---------------|---------------|-------------------|----------------|------------------|-----------------|-----------------|---------------------|
| McCandless - West | 253 | 537 | 1,955 | 66 | 3,963 | 22,423 | 14,869 | 37,293 | 22,226 | 2,185 | 11.4 | 33.1 | 18.5 |
| McCandless - Center | 254 | 970 | 3,463 | 421 | 7,375 | 40,194 | 36,879 | 77,073 | 39,474 | 11,665 | 11.4 | 27.7 | 19.8 |
| McCandless - East | 287 | 879 | 3,057 | 861 | 6,594 | 25,707 | 38,497 | 64,204 | 24,227 | 14,714 | 7.9 | 17.1 | 16.4 |
| Piper | 255 | 1,140 | 3,586 | 511 | 7,858 | 37,367 | 39,526 | 76,893 | 35,910 | 13,608 | 10.0 | 26.6 | 18.8 |
| Great Mall | 280 | 361 | 1,000 | 3,681 | 20,060 | 15,667 | 211,903 | 227,571 | 11,550 | 68,230 | 11.5 | 18.5 | 48.6 |
| Tango | 317 | 1,957 | 6,831 | 1,028 | 13,122 | 58,384 | 64,853 | 123,237 | 55,691 | 20,707 | 8.2 | 20.1 | 15.7 |
| Innovation | 319 | 36 | 113 | 670 | 1,365 | 2,135 | 16,127 | 18,262 | 1,190 | 11,032 | 10.5 | 16.5 | 23.3 |
| Innovation | 312 | - | - | 2,370 | 3,983 | 3,228 | 54,824 | 58,052 | 0 | 38,706 | - | 16.3 | 24.5 |
| sum | | 5,880 | 20,005 | 9,608 | 64,319 | 205,105 | 477,480 | 682,584 | 190,267 | 180,846 | 9.5 | 18.8 | 23.1 |

Table 3: 2040 No-Project Milpitas Metro MMSP - TAZ level VMT Forecasts

| MMSP Subarea | MMSP TAZ | 2040NOP Households | 2040NOP Population | 2040NOP Jobs | 2040NOP ADT | 2040NOP VMT_P | 2040NOP VMT_A | 2040NOP VMT Total | 2040NOP VMT_HH | 2040NOP VMT_Jobs | 2040NOP VMT/Cap | 2040NOP VMT/Job | 2040NOP VMT/Service |
|---------------------|----------|--------------------|--------------------|--------------|-------------|---------------|---------------|-------------------|----------------|------------------|-----------------|-----------------|---------------------|
| McCandless - West | 253 | 1,107 | 4,034 | 66 | 6,606 | 37,826 | 28,417 | 66,243 | 37,336 | 2,658 | 9.3 | 40.3 | 16.2 |
| McCandless - Center | 254 | 1,234 | 4,408 | 939 | 10,573 | 43,050 | 81,031 | 124,081 | 42,058 | 20,934 | 9.5 | 22.3 | 23.2 |
| McCandless - East | 287 | 2,376 | 8,263 | 2,123 | 19,534 | 51,333 | 162,343 | 213,676 | 47,902 | 40,626 | 5.8 | 19.1 | 20.6 |
| Piper | 255 | 1,893 | 5,956 | 1,318 | 16,408 | 64,476 | 128,330 | 192,805 | 61,167 | 31,626 | 10.3 | 24.0 | 26.5 |
| Great Mall | 280 | 361 | 1,000 | 5,154 | 27,070 | 15,338 | 326,948 | 342,285 | 10,015 | 98,717 | 10.0 | 19.2 | 55.6 |
| Tango | 317 | 3,791 | 13,234 | 2,331 | 27,046 | 88,527 | 194,839 | 283,366 | 83,689 | 48,440 | 6.3 | 20.8 | 18.2 |
| Innovation | 319 | 1,797 | 5,669 | 2,127 | 14,296 | 39,644 | 112,207 | 151,851 | 36,494 | 36,959 | 6.4 | 17.4 | 19.5 |
| Innovation | 312 | - | - | 6,155 | 10,636 | 8,201 | 165,560 | 173,762 | 14 | 117,871 | - | 19.2 | 28.2 |
| sum | | 12,559 | 42,564 | 20,213 | 132,169 | 348,395 | 1,199,674 | 1,548,069 | 318,675 | 397,831 | 7.5 | 19.7 | 24.7 |

Table 4: 2040 Plus Project - Milpitas Metro MMSP - TAZ level VMT Forecasts

| MMSP Subarea | MMSP TAZ | 2040PRO Households | 2040PRO Population | 2040PRO Jobs | 2040PRO ADT | 2040PRO VMT_P | 2040PRO VMT_A | 2040PRO VMT Total | 2040PRO VMT_HH | 2040PRO VMT_Jobs | 2040PRO VMT/Cap | 2040PRO VMT/Job | 2040PRO VMT/Service |
|---------------------|----------|--------------------|--------------------|--------------|-------------|---------------|---------------|-------------------|----------------|------------------|-----------------|-----------------|---------------------|
| McCandless - West | 253 | 1,607 | 5,856 | 66 | 8,541 | 48,246 | 37,930 | 86,176 | 47,781 | 2,962 | 8.2 | 44.9 | 14.6 |
| McCandless - Center | 254 | 1,234 | 4,408 | 939 | 10,065 | 39,912 | 78,505 | 118,417 | 39,088 | 20,335 | 8.9 | 21.7 | 22.1 |
| McCandless - East | 287 | 3,076 | 10,697 | 2,123 | 21,096 | 59,565 | 165,502 | 225,067 | 56,897 | 43,412 | 5.3 | 20.4 | 17.6 |
| Piper | 255 | 1,893 | 5,956 | 2,087 | 15,061 | 47,169 | 115,536 | 162,705 | 44,098 | 36,882 | 7.4 | 17.7 | 20.2 |
| Great Mall | 280 | 3,861 | 10,695 | 8,141 | 53,591 | 105,532 | 502,980 | 608,512 | 97,529 | 147,237 | 9.1 | 18.1 | 32.3 |
| Tango | 317 | 5,091 | 17,772 | 2,360 | 30,410 | 100,425 | 211,867 | 312,292 | 96,897 | 48,712 | 5.5 | 20.6 | 15.5 |
| Innovation | 319 | 2,797 | 8,824 | 7,967 | 25,625 | 65,985 | 248,483 | 314,468 | 56,110 | 107,217 | 6.4 | 13.5 | 18.7 |
| Innovation | 312 | - | - | 8,813 | 16,129 | 11,520 | 247,202 | 258,722 | 15 | 166,240 | - | 18.9 | 29.4 |
| sum | | 19,559 | 64,208 | 32,496 | 180,517 | 478,355 | 1,608,005 | 2,086,360 | 438,415 | 572,998 | 6.8 | 17.6 | 21.6 |

Difference PP - NP 7,000 21,644 12,283 48,349 129,960 408,331 538,291 119,741 175,167 (0.7) (2.0) (3.1)
 11.1
 av trip length

Project Mobile Emissions

| Trip Type ^{1,2} | Vehicle Category | Annual Factor | Year | Average Daily Trips | Daily VMT Total | Trip Length (mi) ⁴ | Running Exhaust Emission Factor (g/mi) | | | | | | | | | | | | |
|-----------------------------|------------------|---------------|------|---------------------|-----------------|-------------------------------|--|-------|-------|-------|---------------|--------------|------------|----------------|---------------|-------------|---------|-------|-------|
| | | | | | | | ROG | NOX | CO | SOX | Fugitive PM10 | Exhaust PM10 | Total PM10 | Fugitive PM2.5 | Exhaust PM2.5 | Total PM2.5 | CO2 | CH4 | N2O |
| 2015 - Existing MMSP Area | EMFAC Fleet Mix | 260 | 2015 | 64,319 | 682,584 | 10.61 | 0.071 | 0.572 | 1.953 | 0.004 | 0.322 | 0.010 | 0.332 | 0.095 | 0.010 | 0.104 | 426.648 | 0.013 | 0.025 |
| 2040 - No Project MMSP Area | EMFAC Fleet Mix | 260 | 2040 | 132,169 | 1,548,069 | 11.71 | 0.008 | 0.065 | 0.483 | 0.003 | 0.322 | 0.001 | 0.323 | 0.080 | 0.001 | 0.082 | 288.836 | 0.003 | 0.011 |
| 2040 - Project MMSP Area | EMFAC Fleet Mix | 260 | 2040 | 180,517 | 2,086,360 | 11.56 | 0.008 | 0.065 | 0.483 | 0.003 | 0.322 | 0.001 | 0.323 | 0.080 | 0.001 | 0.082 | 288.836 | 0.003 | 0.011 |

1. Includes exhaust, non-process, and evaporative emissions.

Project Mobile Emissions

| Trip Type ^{1,2} | Vehicle Category | Annual Factor | Year | Average Daily Trips | Daily VMT Total | Trip Length (mi) ⁴ | Non-Running Emission Factors (g/trip) | | | | | | | | | | | | |
|-----------------------------|------------------|---------------|------|---------------------|-----------------|-------------------------------|---------------------------------------|-------|-------|-------|---------------|--------------|------------|----------------|---------------|-------------|---------|-------|-------|
| | | | | | | | ROG | NOX | CO | SOX | Fugitive PM10 | Exhaust PM10 | Total PM10 | Fugitive PM2.5 | Exhaust PM2.5 | Total PM2.5 | CO2 | CH4 | N2O |
| 2015 - Existing MMSP Area | EMFAC Fleet Mix | 260 | 2015 | 64,319 | 682,584 | 10.61 | 1.749 | 0.748 | 6.714 | 0.001 | 0.000 | 0.004 | 0.004 | 0.000 | 0.004 | 0.004 | 110.323 | 0.141 | 0.046 |
| 2040 - No Project MMSP Area | EMFAC Fleet Mix | 260 | 2040 | 132,169 | 1,548,069 | 11.71 | 0.576 | 0.359 | 1.907 | 0.001 | 0.000 | 0.001 | 0.001 | 0.000 | 0.001 | 0.001 | 76.184 | 0.039 | 0.027 |
| 2040 - Project MMSP Area | EMFAC Fleet Mix | 260 | 2040 | 180,517 | 2,086,360 | 11.56 | 0.576 | 0.359 | 1.907 | 0.001 | 0.000 | 0.001 | 0.001 | 0.000 | 0.001 | 0.001 | 76.184 | 0.039 | 0.027 |

1. Includes exhaust, non-process, and evaporative emissions.

Project Mobile Emissions

| Trip Type ^{1,2} | Vehicle Category | Annual Factor | Year | Average Daily Trips | Daily VMT Total | Trip Length (mi) ⁴ | Emissions (lb/day) | | | | | | | | | Emissions (MT/day) | | | | Emissions (MT/year) | | | | | | | |
|-----------------------------|------------------|---------------|------|---------------------|-----------------|-------------------------------|--------------------|--------|---------|-------|---------------|--------------|------------|----------------|---------------|--------------------|--------------|-------|-------|---------------------|------|------|-------------------|------------|------|------|-------------------|
| | | | | | | | ROG | NOX | CO | SOX | Fugitive PM10 | Exhaust PM10 | Total PM10 | Fugitive PM2.5 | Exhaust PM2.5 | Total PM2.5 | CO2 | CH4 | N2O | CO2 | CH4 | N2O | CO ₂ e | CO2 | CH4 | N2O | CO ₂ e |
| 2015 - Existing MMSP Area | EMFAC Fleet Mix | 260 | 2015 | 64,319 | 682,584 | 10.61 | 355.47 | 966.37 | 3890.36 | 6.44 | 484.41 | 16.19 | 500.60 | 142.33 | 15.39 | 157.72 | 657,684.24 | 40.06 | 44.33 | 298.32 | 0.02 | 0.02 | 304.77 | 77,563.44 | 4.72 | 5.23 | 79,239.56 |
| 2040 - No Project MMSP Area | EMFAC Fleet Mix | 260 | 2040 | 132,169 | 1,548,069 | 11.71 | 194.14 | 326.32 | 2205.35 | 9.83 | 1097.37 | 5.15 | 1102.52 | 274.67 | 4.86 | 279.52 | 1,007,972.82 | 22.18 | 46.17 | 457.21 | 0.01 | 0.02 | 463.70 | 118,874.42 | 2.62 | 5.45 | 120,562.53 |
| 2040 - Project MMSP Area | EMFAC Fleet Mix | 260 | 2040 | 180,517 | 2,086,360 | 11.56 | 264.69 | 441.68 | 2982.24 | 13.25 | 1478.94 | 6.95 | 1485.89 | 370.17 | 6.55 | 376.72 | 1,358,864.66 | 30.11 | 62.37 | 616.37 | 0.01 | 0.03 | 625.14 | 160,256.56 | 3.55 | 7.36 | 162,537.30 |

1. Includes exhaust, non-process, and evaporative emissions.

Road Dust Emission Factors

Daily Paved Road Dust EF¹

$$E_{ext} = [k (sL)^{0.91} \times (W)^{1.02}]$$

- EF_{paved} Annual or other long-term average emission factor in the same units as k
- k particle size multiplier for particle size range and units of interest
- sL road surface silt loading (g/m²)
- W average weight (tons) of all the vehicles raveling the road (2.4 tons)
- P Number of "wet" days with at least 0.254 (0.01 in) of precipitation during the averaging period
- N Number of days in the averaging period (e.g. 365 for annual, 91 for seasonal, 30 for monthly)

| Parameters | PM10 | PM2.5 |
|------------------------|----------|----------|
| k (g/VMT) ² | 0.99792 | 0.244944 |
| sL (g/m ²) | 0.1 | 0.1 |
| W (tons) | 2.4 | 2.4 |
| EF (g/mi) | 3.00E-01 | 7.36E-02 |

- 1) CalEEMod User's Guide, Appendix A, p. 29
- 2) AP42: Chapter 13: Miscellaneous Sources, 13.2.1 Paved Roads, Table 13.2.1-1

