

Existing Land Use - Santa Clara Downtown Precise Plan - Santa Clara County, Annual

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

**Existing Land Use - Santa Clara Downtown Precise Plan
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|--------|---------------|-------------|--------------------|------------|
| Bank (with Drive-Through) | 9.80 | 1000sqft | 0.00 | 9,800.00 | 0 |
| General Office Building | 125.80 | 1000sqft | 19.22 | 125,800.00 | 0 |
| Government Office Building | 16.50 | 1000sqft | 0.00 | 16,500.00 | 0 |
| Day-Care Center | 8.60 | 1000sqft | 0.00 | 8,600.00 | 0 |
| Apartments Mid Rise | 228.00 | Dwelling Unit | 0.00 | 256,000.00 | 652 |
| Regional Shopping Center | 141.90 | 1000sqft | 0.00 | 141,900.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------|---------------------------------|-----|----------------------------------|------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 58 |
| Climate Zone | 4 | | | Operational Year | 2050 |
| Utility Company | Silicon Valley Power | | | | |
| CO2 Intensity (lb/MW hr) | 0 | CH4 Intensity (lb/MW hr) | 0 | N2O Intensity (lb/MW hr) | 0 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SB 100 requires that all electric retails sales will be supplied by 100 percent renewable/zero-carbon energy resources by 2045

Land Use - Existing land uses. No USPS land use, using a bank with a drive through as a similar land use type and the number of daily trips are similar

Construction Phase - Operational model only, no construction modeling

Grading -

Vehicle Trips - Trip rates account for MXD and TDM reductions but not a pass-by reduction

Woodstoves - Conservatively assuming no existing land uses include woodstoves or fireplaces

Energy Use - Assuming all existing land uses include natural gas infrastructure

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Water And Wastewater - Santa Clara wastewater treatment is 100% aerobic

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------|---------------|------------|
| tblConstructionPhase | NumDays | 10.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 1/13/2023 | 1/1/2023 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 34.20 | 0.00 |
| tblFireplaces | NumberNoFireplace | 9.12 | 0.00 |
| tblFireplaces | NumberWood | 38.76 | 0.00 |
| tblLandUse | LandUseSquareFeet | 228,000.00 | 256,000.00 |
| tblLandUse | LotAcreage | 0.22 | 0.00 |
| tblLandUse | LotAcreage | 2.89 | 19.22 |
| tblLandUse | LotAcreage | 0.38 | 0.00 |
| tblLandUse | LotAcreage | 0.20 | 0.00 |
| tblLandUse | LotAcreage | 6.00 | 0.00 |
| tblLandUse | LotAcreage | 3.26 | 0.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.033 | 0 |
| tblProjectCharacteristics | CO2IntensityFactor | 307.98 | 0 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004 | 0 |
| tblVehicleTrips | ST_TR | 4.91 | 3.50 |
| tblVehicleTrips | ST_TR | 86.48 | 76.75 |
| tblVehicleTrips | ST_TR | 6.22 | 5.30 |
| tblVehicleTrips | ST_TR | 2.21 | 2.10 |
| tblVehicleTrips | ST_TR | 46.12 | 38.60 |
| tblVehicleTrips | SU_TR | 4.09 | 2.92 |
| tblVehicleTrips | SU_TR | 31.96 | 28.36 |
| tblVehicleTrips | SU_TR | 5.84 | 4.98 |

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| | | | |
|-----------------|---------------------------------------|--------|--------|
| tblVehicleTrips | SU_TR | 0.70 | 0.66 |
| tblVehicleTrips | SU_TR | 21.10 | 17.66 |
| tblVehicleTrips | WD_TR | 5.44 | 3.88 |
| tblVehicleTrips | WD_TR | 100.03 | 88.78 |
| tblVehicleTrips | WD_TR | 47.62 | 40.58 |
| tblVehicleTrips | WD_TR | 9.74 | 9.25 |
| tblVehicleTrips | WD_TR | 22.59 | 19.27 |
| tblVehicleTrips | WD_TR | 37.75 | 31.59 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 4.56 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 4.56 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |

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

| 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 | 2.5703 | 0.0195 | 1.6883 | 9.0000e-005 | | 9.4000e-003 | 9.4000e-003 | | 9.4000e-003 | 9.4000e-003 | 0.0000 | 2.7708 | 2.7708 | 2.6500e-003 | 0.0000 | 2.8369 |
| Energy | 0.0268 | 0.2376 | 0.1631 | 1.4600e-003 | | 0.0185 | 0.0185 | | 0.0185 | 0.0185 | 0.0000 | 264.7920 | 264.7920 | 5.0800e-003 | 4.8500e-003 | 266.3656 |
| Mobile | 1.5927 | 1.5857 | 16.3294 | 0.0323 | 4.8260 | 0.0147 | 4.8408 | 1.2877 | 0.0138 | 1.3015 | 0.0000 | 3,283.3146 | 3,283.3146 | 0.1829 | 0.1497 | 3,332.5050 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 82.5240 | 0.0000 | 82.5240 | 4.8770 | 0.0000 | 204.4496 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 18.3128 | 0.0000 | 18.3128 | 0.0630 | 0.0398 | 31.7561 |
| Total | 4.1897 | 1.8428 | 18.1808 | 0.0338 | 4.8260 | 0.0426 | 4.8687 | 1.2877 | 0.0417 | 1.3293 | 100.8367 | 3,550.8774 | 3,651.7141 | 5.1307 | 0.1944 | 3,837.9132 |

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

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| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| | Area | 2.5703 | 0.0195 | 1.6883 | 9.0000e-005 | | 9.4000e-003 | 9.4000e-003 | | 9.4000e-003 | 9.4000e-003 | 0.0000 | 2.7708 | 2.7708 | 2.6500e-003 | 0.0000 |
| Energy | 0.0268 | 0.2376 | 0.1631 | 1.4600e-003 | | 0.0185 | 0.0185 | | 0.0185 | 0.0185 | 0.0000 | 264.7920 | 264.7920 | 5.0800e-003 | 4.8500e-003 | 266.3656 |
| Mobile | 1.5927 | 1.5857 | 16.3294 | 0.0323 | 4.8260 | 0.0147 | 4.8408 | 1.2877 | 0.0138 | 1.3015 | 0.0000 | 3,283.3146 | 3,283.3146 | 0.1829 | 0.1497 | 3,332.5050 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 82.5240 | 0.0000 | 82.5240 | 4.8770 | 0.0000 | 204.4496 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 18.3128 | 0.0000 | 18.3128 | 0.0630 | 0.0398 | 31.7561 |
| Total | 4.1897 | 1.8428 | 18.1808 | 0.0338 | 4.8260 | 0.0426 | 4.8687 | 1.2877 | 0.0417 | 1.3293 | 100.8367 | 3,550.8774 | 3,651.7141 | 5.1307 | 0.1944 | 3,837.9132 |

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|------------------|------------------|------------|----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/2/2023 | 1/1/2023 | 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 |
|------------|------------------------|--------|-------------|-------------|-------------|
|------------|------------------------|--------|-------------|-------------|-------------|

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| | | | | | |
|------------------|---------------------------|---|------|-----|------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

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 |
|------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

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

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| 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 | | | | | |
| 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

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

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| 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

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.5927 | 1.5857 | 16.3294 | 0.0323 | 4.8260 | 0.0147 | 4.8408 | 1.2877 | 0.0138 | 1.3015 | 0.0000 | 3,283.3146 | 3,283.3146 | 0.1829 | 0.1497 | 3,332.5050 |
| Unmitigated | 1.5927 | 1.5857 | 16.3294 | 0.0323 | 4.8260 | 0.0147 | 4.8408 | 1.2877 | 0.0138 | 1.3015 | 0.0000 | 3,283.3146 | 3,283.3146 | 0.1829 | 0.1497 | 3,332.5050 |

4.2 Trip Summary Information

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

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| | | | | | |
|----------------------------|-----------------|-----------------|-----------------|-------------------|-------------------|
| Apartments Mid Rise | 884.64 | 798.00 | 665.76 | 1,942,367 | 1,942,367 |
| Bank (with Drive-Through) | 870.04 | 752.15 | 277.93 | 710,949 | 710,949 |
| Day-Care Center | 348.99 | 45.58 | 42.83 | 308,429 | 308,429 |
| General Office Building | 1,163.65 | 264.18 | 83.03 | 2,104,846 | 2,104,846 |
| Government Office Building | 317.96 | 0.00 | 0.00 | 389,468 | 389,468 |
| Regional Shopping Center | 4,482.62 | 5,477.34 | 2505.95 | 7,613,450 | 7,613,450 |
| Total | 8,067.90 | 7,337.25 | 3,575.50 | 13,069,509 | 13,069,509 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| Bank (with Drive-Through) | 9.50 | 7.30 | 7.30 | 6.60 | 74.40 | 19.00 | 27 | 26 | 47 |
| Day-Care Center | 9.50 | 7.30 | 7.30 | 12.70 | 82.30 | 5.00 | 28 | 58 | 14 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Government Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Regional Shopping Center | 9.50 | 7.30 | 7.30 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.576746 | 0.058312 | 0.178441 | 0.117494 | 0.021081 | 0.005985 | 0.007557 | 0.005361 | 0.000758 | 0.000253 | 0.024805 | 0.000627 | 0.002581 |
| Bank (with Drive-Through) | 0.576746 | 0.058312 | 0.178441 | 0.117494 | 0.021081 | 0.005985 | 0.007557 | 0.005361 | 0.000758 | 0.000253 | 0.024805 | 0.000627 | 0.002581 |
| Day-Care Center | 0.576746 | 0.058312 | 0.178441 | 0.117494 | 0.021081 | 0.005985 | 0.007557 | 0.005361 | 0.000758 | 0.000253 | 0.024805 | 0.000627 | 0.002581 |
| General Office Building | 0.576746 | 0.058312 | 0.178441 | 0.117494 | 0.021081 | 0.005985 | 0.007557 | 0.005361 | 0.000758 | 0.000253 | 0.024805 | 0.000627 | 0.002581 |
| Government Office Building | 0.576746 | 0.058312 | 0.178441 | 0.117494 | 0.021081 | 0.005985 | 0.007557 | 0.005361 | 0.000758 | 0.000253 | 0.024805 | 0.000627 | 0.002581 |
| Regional Shopping Center | 0.576746 | 0.058312 | 0.178441 | 0.117494 | 0.021081 | 0.005985 | 0.007557 | 0.005361 | 0.000758 | 0.000253 | 0.024805 | 0.000627 | 0.002581 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated | | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated | 0.0268 | 0.2376 | 0.1631 | 1.4600e-003 | | 0.0185 | 0.0185 | | 0.0185 | 0.0185 | 0.0000 | 264.7920 | 264.7920 | 5.0800e-003 | 4.8500e-003 | 266.3656 |
| NaturalGas Unmitigated | 0.0268 | 0.2376 | 0.1631 | 1.4600e-003 | | 0.0185 | 0.0185 | | 0.0185 | 0.0185 | 0.0000 | 264.7920 | 264.7920 | 5.0800e-003 | 4.8500e-003 | 266.3656 |

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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 1.91102e+006 | 0.0103 | 0.0881 | 0.0375 | 5.6000e-004 | | 7.1200e-003 | 7.1200e-003 | | 7.1200e-003 | 7.1200e-003 | 0.0000 | 101.9795 | 101.9795 | 1.9500e-003 | 1.8700e-003 | 102.5855 |
| Bank (with Drive-Through) | 256564 | 1.3800e-003 | 0.0126 | 0.0106 | 8.0000e-005 | | 9.6000e-004 | 9.6000e-004 | | 9.6000e-004 | 9.6000e-004 | 0.0000 | 13.6912 | 13.6912 | 2.6000e-004 | 2.5000e-004 | 13.7726 |
| Day-Care Center | 157122 | 8.5000e-004 | 7.7000e-003 | 6.4700e-003 | 5.0000e-005 | | 5.9000e-004 | 5.9000e-004 | | 5.9000e-004 | 5.9000e-004 | 0.0000 | 8.3846 | 8.3846 | 1.6000e-004 | 1.5000e-004 | 8.4345 |
| General Office Building | 2.03796e+006 | 0.0110 | 0.0999 | 0.0839 | 6.0000e-004 | | 7.5900e-003 | 7.5900e-003 | | 7.5900e-003 | 7.5900e-003 | 0.0000 | 108.7533 | 108.7533 | 2.0800e-003 | 1.9900e-003 | 109.3996 |
| Government Office Building | 267300 | 1.4400e-003 | 0.0131 | 0.0110 | 8.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | 0.0000 | 14.2642 | 14.2642 | 2.7000e-004 | 2.6000e-004 | 14.3489 |

Existing Land Use - Santa Clara Downtown Precise Plan - Santa Clara County, Annual

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

| | | | | | | | | | | | | | | | | | |
|--------------------------|--------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Regional Shopping Center | 332046 | 1.7900e-003 | 0.0163 | 0.0137 | 1.0000e-004 | | 1.2400e-003 | 1.2400e-003 | | 1.2400e-003 | 1.2400e-003 | 0.0000 | 17.7192 | 17.7192 | 3.4000e-004 | 3.2000e-004 | 17.8245 |
| Total | | 0.0268 | 0.2376 | 0.1631 | 1.4700e-003 | | 0.0185 | 0.0185 | | 0.0185 | 0.0185 | 0.0000 | 264.7920 | 264.7920 | 5.0600e-003 | 4.8400e-003 | 266.3655 |

Mitigated

| Land Use | Natural Gas Use kBtu/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| | | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 1.91102e+006 | 0.0103 | 0.0881 | 0.0375 | 5.6000e-004 | | 7.1200e-003 | 7.1200e-003 | | 7.1200e-003 | 7.1200e-003 | 0.0000 | 101.9795 | 101.9795 | 1.9500e-003 | 1.8700e-003 | 102.5855 |
| Bank (with Drive-Through) | 256564 | 1.3800e-003 | 0.0126 | 0.0106 | 8.0000e-005 | | 9.6000e-004 | 9.6000e-004 | | 9.6000e-004 | 9.6000e-004 | 0.0000 | 13.6912 | 13.6912 | 2.6000e-004 | 2.5000e-004 | 13.7726 |
| Day-Care Center | 157122 | 8.5000e-004 | 7.7000e-003 | 6.4700e-003 | 5.0000e-005 | | 5.9000e-004 | 5.9000e-004 | | 5.9000e-004 | 5.9000e-004 | 0.0000 | 8.3846 | 8.3846 | 1.6000e-004 | 1.5000e-004 | 8.4345 |
| General Office Building | 2.03796e+006 | 0.0110 | 0.0999 | 0.0839 | 6.0000e-004 | | 7.5900e-003 | 7.5900e-003 | | 7.5900e-003 | 7.5900e-003 | 0.0000 | 108.7533 | 108.7533 | 2.0800e-003 | 1.9900e-003 | 109.3996 |
| Government Office Building | 267300 | 1.4400e-003 | 0.0131 | 0.0110 | 8.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | 0.0000 | 14.2642 | 14.2642 | 2.7000e-004 | 2.6000e-004 | 14.3489 |
| Regional Shopping Center | 332046 | 1.7900e-003 | 0.0163 | 0.0137 | 1.0000e-004 | | 1.2400e-003 | 1.2400e-003 | | 1.2400e-003 | 1.2400e-003 | 0.0000 | 17.7192 | 17.7192 | 3.4000e-004 | 3.2000e-004 | 17.8245 |
| Total | | 0.0268 | 0.2376 | 0.1631 | 1.4700e-003 | | 0.0185 | 0.0185 | | 0.0185 | 0.0185 | 0.0000 | 264.7920 | 264.7920 | 5.0600e-003 | 4.8400e-003 | 266.3655 |

5.3 Energy by Land Use - Electricity

Unmitigated

Existing Land Use - Santa Clara Downtown Precise Plan - Santa Clara County, Annual

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

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 881546 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Bank (with Drive-Through) | 79380 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Day-Care Center | 44892 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 2.15999e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government Office Building | 283305 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 1.47434e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-----------------|-----------|--------|--------|--------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 881546 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Bank (with Drive-Through) | 79380 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Day-Care Center | 44892 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 2.15999e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government Office Building | 283305 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Existing Land Use - Santa Clara Downtown Precise Plan - Santa Clara County, Annual

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

| | | | | | | | | | | | | | | | | |
|-------------------|---------------|---------------|---------------|--------------------|--|--------------------|--------------------|--|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Consumer Products | 2.1816 | | | | | 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 | 0.0507 | 0.0195 | 1.6883 | 9.0000e-005 | | 9.4000e-003 | 9.4000e-003 | | 9.4000e-003 | 9.4000e-003 | 0.0000 | 2.7708 | 2.7708 | 2.6500e-003 | 0.0000 | 2.8369 |
| Total | 2.5703 | 0.0195 | 1.6883 | 9.0000e-005 | | 9.4000e-003 | 9.4000e-003 | | 9.4000e-003 | 9.4000e-003 | 0.0000 | 2.7708 | 2.7708 | 2.6500e-003 | 0.0000 | 2.8369 |

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 | 0.3380 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 2.1816 | | | | | 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 | 0.0507 | 0.0195 | 1.6883 | 9.0000e-005 | | 9.4000e-003 | 9.4000e-003 | | 9.4000e-003 | 9.4000e-003 | 0.0000 | 2.7708 | 2.7708 | 2.6500e-003 | 0.0000 | 2.8369 |
| Total | 2.5703 | 0.0195 | 1.6883 | 9.0000e-005 | | 9.4000e-003 | 9.4000e-003 | | 9.4000e-003 | 9.4000e-003 | 0.0000 | 2.7708 | 2.7708 | 2.6500e-003 | 0.0000 | 2.8369 |

7.0 Water Detail

7.1 Mitigation Measures Water

Existing Land Use - Santa Clara Downtown Precise Plan - Santa Clara County, Annual

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| Category | MT/yr | | | |
| Mitigated | 18.3128 | 0.0630 | 0.0398 | 31.7561 |
| Unmitigated | 18.3128 | 0.0630 | 0.0398 | 31.7561 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|---------------------|----------------|---------------|---------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 14.8551 / 9.36518 | 5.2558 | 0.0181 | 0.0114 | 9.1140 |
| Bank (with Drive-Through) | 0.388305 / 0.237993 | 0.1374 | 4.7000e-004 | 3.0000e-004 | 0.2382 |
| Day-Care Center | 0.36885 / 0.948472 | 0.1305 | 4.5000e-004 | 2.8000e-004 | 0.2263 |
| General Office Building | 22.3589 / 13.7038 | 7.9106 | 0.0272 | 0.0172 | 13.7178 |
| Government Office Building | 3.27788 / 2.00903 | 1.1597 | 3.9900e-003 | 2.5200e-003 | 2.0111 |
| Regional Shopping Center | 10.5109 / 6.44216 | 3.7188 | 0.0128 | 8.0900e-003 | 6.4487 |
| Total | | 18.3128 | 0.0630 | 0.0398 | 31.7562 |

Existing Land Use - Santa Clara Downtown Precise Plan - Santa Clara County, Annual

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

Mitigated

| Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e | |
|----------------------------|---------------------|----------------|---------------|---------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 14.8551 / 9.36518 | 5.2558 | 0.0181 | 0.0114 | 9.1140 |
| Bank (with Drive-Through) | 0.388305 / 0.237993 | 0.1374 | 4.7000e-004 | 3.0000e-004 | 0.2382 |
| Day-Care Center | 0.36885 / 0.948472 | 0.1305 | 4.5000e-004 | 2.8000e-004 | 0.2263 |
| General Office Building | 22.3589 / 13.7038 | 7.9106 | 0.0272 | 0.0172 | 13.7178 |
| Government Office Building | 3.27788 / 2.00903 | 1.1597 | 3.9900e-003 | 2.5200e-003 | 2.0111 |
| Regional Shopping Center | 10.5109 / 6.44216 | 3.7188 | 0.0128 | 8.0900e-003 | 6.4487 |
| Total | | 18.3128 | 0.0630 | 0.0398 | 31.7562 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

Existing Land Use - Santa Clara Downtown Precise Plan - Santa Clara County, Annual

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| | MT/yr | | | |
| Mitigated | 82.5240 | 4.8770 | 0.0000 | 204.4496 |
| Unmitigated | 82.5240 | 4.8770 | 0.0000 | 204.4496 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 104.88 | 21.2897 | 1.2582 | 0.0000 | 52.7443 |
| Bank (with Drive-Through) | 9.14 | 1.8553 | 0.1097 | 0.0000 | 4.5965 |
| Day-Care Center | 11.18 | 2.2694 | 0.1341 | 0.0000 | 5.6224 |
| General Office Building | 116.99 | 23.7479 | 1.4035 | 0.0000 | 58.8345 |
| Government Office Building | 15.35 | 3.1159 | 0.1842 | 0.0000 | 7.7195 |
| Regional Shopping Center | 149 | 30.2457 | 1.7875 | 0.0000 | 74.9323 |
| Total | | 82.5239 | 4.8770 | 0.0000 | 204.4496 |

Mitigated

Existing Land Use - Santa Clara Downtown Precise Plan - Santa Clara County, Annual

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

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 104.88 | 21.2897 | 1.2582 | 0.0000 | 52.7443 |
| Bank (with Drive-Through) | 9.14 | 1.8553 | 0.1097 | 0.0000 | 4.5965 |
| Day-Care Center | 11.18 | 2.2694 | 0.1341 | 0.0000 | 5.6224 |
| General Office Building | 116.99 | 23.7479 | 1.4035 | 0.0000 | 58.8345 |
| Government Office Building | 15.35 | 3.1159 | 0.1842 | 0.0000 | 7.7195 |
| Regional Shopping Center | 149 | 30.2457 | 1.7875 | 0.0000 | 74.9323 |
| Total | | 82.5239 | 4.8770 | 0.0000 | 204.4496 |

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Existing Land Use - Santa Clara Downtown Precise Plan - Santa Clara County, Annual

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

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

11.0 Vegetation

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

**Santa Clara Downtown Precise Plan
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------|----------|---------------|-------------|--------------------|------------|
| Apartments Mid Rise | 1,071.00 | Dwelling Unit | 14.56 | 963,720.00 | 3063 |
| General Office Building | 531.72 | 1000sqft | 4.66 | 531,720.00 | 0 |
| Regional Shopping Center | 197.90 | 1000sqft | 0.00 | 197,900.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------|---------------------------------|-----|----------------------------------|------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 58 |
| Climate Zone | 4 | | | Operational Year | 2050 |
| Utility Company | Silicon Valley Power | | | | |
| CO2 Intensity (lb/MW hr) | 0 | CH4 Intensity (lb/MW hr) | 0 | N2O Intensity (lb/MW hr) | 0 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SB 100 requires that all electric retail sales will be supplied by 100 percent renewable/zero-carbon energy resources by 2045

Land Use - Housing Emphasis Scenario: Base Area + 20%

Construction Phase - Operational model only, no construction modeling

Vehicle Trips - Trip rates account for MXD and TDM reductions but not a pass-by reduction

Woodstoves - No woodstoves or fireplace are proposed

Water And Wastewater - Santa Clara wastewater treatment is 100% aerobic

Energy Use - Santa Clara Reach Code prohibits natural gas infrastructure in new construction (Chapter 15.36 Energy Code, Reach Code Ordinance No. 2034)

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------|---------------|-----------|
| tblConstructionPhase | NumDays | 10.00 | 0.00 |

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| tblConstructionPhase | PhaseEndDate | 2/10/2023 | 1/27/2023 |
|---------------------------|--------------------|--------------|------------|
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | NT24NG | 0.06 | 0.00 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblEnergyUse | T24NG | 16.14 | 0.00 |
| tblEnergyUse | T24NG | 2.34 | 0.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 160.65 | 0.00 |
| tblFireplaces | NumberNoFireplace | 42.84 | 0.00 |
| tblFireplaces | NumberWood | 182.07 | 0.00 |
| tblGrading | AcresOfGrading | 0.00 | 15.00 |
| tblLandUse | LandUseSquareFeet | 1,071,000.00 | 963,720.00 |
| tblLandUse | LotAcreage | 28.18 | 14.56 |
| tblLandUse | LotAcreage | 12.21 | 4.66 |
| tblLandUse | LotAcreage | 4.54 | 0.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.033 | 0 |
| tblProjectCharacteristics | CO2IntensityFactor | 307.98 | 0 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004 | 0 |
| tblVehicleTrips | ST_TR | 4.91 | 2.84 |
| tblVehicleTrips | ST_TR | 2.21 | 1.54 |
| tblVehicleTrips | ST_TR | 46.12 | 34.84 |
| tblVehicleTrips | SU_TR | 4.09 | 2.37 |
| tblVehicleTrips | SU_TR | 0.70 | 0.49 |
| tblVehicleTrips | SU_TR | 21.10 | 15.94 |
| tblVehicleTrips | WD_TR | 5.44 | 3.15 |
| tblVehicleTrips | WD_TR | 9.74 | 6.77 |
| tblVehicleTrips | WD_TR | 37.75 | 28.52 |

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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 | | | | | |
| 2023 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 |

| | ROG | NOx | CO | SO2 | 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 | 7.9096 | 0.0915 | 7.9240 | 4.2000e-004 | | 0.0441 | 0.0441 | | 0.0441 | 0.0441 | 0.0000 | 13.0030 | 13.0030 | 0.0124 | 0.0000 | 13.3129 |
| 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 | 0.0000 |
| Mobile | 2.6737 | 2.7260 | 28.1467 | 0.0577 | 8.6795 | 0.0260 | 8.7056 | 2.3159 | 0.0243 | 2.3402 | 0.0000 | 5,873.7905 | 5,873.7905 | 0.3136 | 0.2573 | 5,958.3172 |

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| | | | | | | | | | | | | | | | | |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 242.5661 | 0.0000 | 242.5661 | 14.3352 | 0.0000 | 600.9472 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 63.3105 | 0.0000 | 63.3105 | 0.2179 | 0.1377 | 109.7867 |
| Total | 10.5833 | 2.8174 | 36.0707 | 0.0582 | 8.6795 | 0.0701 | 8.7497 | 2.3159 | 0.0684 | 2.3843 | 305.8766 | 5,886.7935 | 6,192.6701 | 14.8791 | 0.3950 | 6,682.3640 |

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 | 7.9096 | 0.0915 | 7.9240 | 4.2000e-004 | | 0.0441 | 0.0441 | | 0.0441 | 0.0441 | 0.0000 | 13.0030 | 13.0030 | 0.0124 | 0.0000 | 13.3129 |
| 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 | 0.0000 |
| Mobile | 2.6737 | 2.7260 | 28.1467 | 0.0577 | 8.6795 | 0.0260 | 8.7056 | 2.3159 | 0.0243 | 2.3402 | 0.0000 | 5,873.7905 | 5,873.7905 | 0.3136 | 0.2573 | 5,958.3172 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 242.5661 | 0.0000 | 242.5661 | 14.3352 | 0.0000 | 600.9472 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 63.3105 | 0.0000 | 63.3105 | 0.2179 | 0.1377 | 109.7867 |
| Total | 10.5833 | 2.8174 | 36.0707 | 0.0582 | 8.6795 | 0.0701 | 8.7497 | 2.3159 | 0.0684 | 2.3843 | 305.8766 | 5,886.7935 | 6,192.6701 | 14.8791 | 0.3950 | 6,682.3640 |

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

3.0 Construction Detail

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Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|------------------|------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/28/2023 | 1/27/2023 | 5 | 0 | |

Acres of Grading (Site Preparation Phase): 15

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 |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

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 |
|------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

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

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

| | ROG | NOx | CO | SO2 | Fugitive 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 | | | | | |

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

| | ROG | NOx | CO | SO2 | Fugitive 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 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 2.6737 | 2.7260 | 28.1467 | 0.0577 | 8.6795 | 0.0260 | 8.7056 | 2.3159 | 0.0243 | 2.3402 | 0.0000 | 5,873.7905 | 5,873.7905 | 0.3136 | 0.2573 | 5,958.3172 |
| Unmitigated | 2.6737 | 2.7260 | 28.1467 | 0.0577 | 8.6795 | 0.0260 | 8.7056 | 2.3159 | 0.0243 | 2.3402 | 0.0000 | 5,873.7905 | 5,873.7905 | 0.3136 | 0.2573 | 5,958.3172 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|--------------------------|-------------------------|------------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 3,373.65 | 3,041.64 | 2538.27 | 7,406,633 | 7,406,633 |
| General Office Building | 3,599.74 | 818.85 | 260.54 | 6,513,139 | 6,513,139 |
| Regional Shopping Center | 5,644.11 | 6,894.84 | 3154.53 | 9,585,543 | 9,585,543 |
| Total | 12,617.50 | 10,755.32 | 5,953.34 | 23,505,316 | 23,505,316 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 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 |
| Regional Shopping Center | 9.50 | 7.30 | 7.30 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.576746 | 0.058312 | 0.178441 | 0.117494 | 0.021081 | 0.005985 | 0.007557 | 0.005361 | 0.000758 | 0.000253 | 0.024805 | 0.000627 | 0.002581 |
| General Office Building | 0.576746 | 0.058312 | 0.178441 | 0.117494 | 0.021081 | 0.005985 | 0.007557 | 0.005361 | 0.000758 | 0.000253 | 0.024805 | 0.000627 | 0.002581 |

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| | | | | | | | | | | | | | | | | | |
|--------------------------|---|---------------|---------------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Apartments Mid Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 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

| | 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 | | | | | |
| Apartments Mid Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0000 |
| Regional Shopping Center | 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

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--|-----------------|-----------|-----|-----|------|
|--|-----------------|-----------|-----|-----|------|

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| Land Use | kWh/yr | MT/yr | | | |
|--------------------------|--------------|---------------|---------------|---------------|---------------|
| Apartments Mid Rise | 4.14095e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 9.12963e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 2.05618e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 4.14095e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 9.12963e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 2.05618e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 7.9096 | 0.0915 | 7.9240 | 4.2000e-004 | | 0.0441 | 0.0441 | | 0.0441 | 0.0441 | 0.0000 | 13.0030 | 13.0030 | 0.0124 | 0.0000 | 13.3129 |
| Unmitigated | 7.9096 | 0.0915 | 7.9240 | 4.2000e-004 | | 0.0441 | 0.0441 | | 0.0441 | 0.0441 | 0.0000 | 13.0030 | 13.0030 | 0.0124 | 0.0000 | 13.3129 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 6.6133 | | | | | 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 | 0.2374 | 0.0915 | 7.9240 | 4.2000e-004 | | 0.0441 | 0.0441 | | 0.0441 | 0.0441 | 0.0000 | 13.0030 | 13.0030 | 0.0124 | 0.0000 | 13.3129 |
| Total | 7.9096 | 0.0915 | 7.9240 | 4.2000e-004 | | 0.0441 | 0.0441 | | 0.0441 | 0.0441 | 0.0000 | 13.0030 | 13.0030 | 0.0124 | 0.0000 | 13.3129 |

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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 | 1.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 6.6133 | | | | | 0.0000 | 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 | 0.0000 |
| Landscaping | 0.2374 | 0.0915 | 7.9240 | 4.2000e-004 | | 0.0441 | 0.0441 | | 0.0441 | 0.0441 | 0.0000 | 13.0030 | 13.0030 | 0.0124 | 0.0000 | 13.3129 | |
| Total | 7.9096 | 0.0915 | 7.9240 | 4.2000e-004 | | 0.0441 | 0.0441 | | 0.0441 | 0.0441 | 0.0000 | 13.0030 | 13.0030 | 0.0124 | 0.0000 | 13.3129 | |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 63.3105 | 0.2179 | 0.1377 | 109.7867 |
| Unmitigated | 63.3105 | 0.2179 | 0.1377 | 109.7867 |

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7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------------|----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 69.78 / 43.9917 | 24.6883 | 0.0850 | 0.0537 | 42.8119 |
| General Office Building | 94.5046 / 57.9222 | 33.4359 | 0.1151 | 0.0727 | 57.9812 |
| Regional Shopping Center | 14.659 / 8.98452 | 5.1864 | 0.0179 | 0.0113 | 8.9937 |
| Total | | 63.3105 | 0.2179 | 0.1377 | 109.7867 |

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------------|----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 69.78 / 43.9917 | 24.6883 | 0.0850 | 0.0537 | 42.8119 |
| General Office Building | 94.5046 / 57.9222 | 33.4359 | 0.1151 | 0.0727 | 57.9812 |
| Regional Shopping Center | 14.659 / 8.98452 | 5.1864 | 0.0179 | 0.0113 | 8.9937 |
| Total | | 63.3105 | 0.2179 | 0.1377 | 109.7867 |

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 242.5661 | 14.3352 | 0.0000 | 600.9472 |
| Unmitigated | 242.5661 | 14.3352 | 0.0000 | 600.9472 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|-----------|--------|--------|----------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 492.66 | 100.0055 | 5.9102 | 0.0000 | 247.7595 |
| General Office Building | 494.5 | 100.3790 | 5.9322 | 0.0000 | 248.6848 |
| Regional Shopping Center | 207.8 | 42.1815 | 2.4929 | 0.0000 | 104.5029 |

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| | | | | | |
|--------------|--|-----------------|----------------|---------------|-----------------|
| Total | | 242.5661 | 14.3353 | 0.0000 | 600.9472 |
|--------------|--|-----------------|----------------|---------------|-----------------|

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | M1/yr | | | |
| Apartments Mid Rise | 492.66 | 100.0055 | 5.9102 | 0.0000 | 247.7595 |
| General Office Building | 494.5 | 100.3790 | 5.9322 | 0.0000 | 248.6848 |
| Regional Shopping Center | 207.8 | 42.1815 | 2.4929 | 0.0000 | 104.5029 |
| Total | | 242.5661 | 14.3353 | 0.0000 | 600.9472 |

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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User Defined Equipment

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

11.0 Vegetation
