# Appendix I

Alternatives Air Quality, GHG, and Noise Modeling Results

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

# 200 Portage Avenue Air Quality Alternative 2

**Bay Area AQMD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 7.40 | 1000sqft | 0.00 | 7,400.00 | 0 |
| Parking Lot | 36.00 | Space | 0.00 | 14,400.00 | 0 |
| Condo/Townhouse High Rise | 293.00 | Dwelling Unit | 4.58 | 224,983.00 | 838 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2024 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Residential square footage based on Alternative 2 data. Existing 7,400 sf commercial space to remain. Surface parking square footage based on CalEEMod defaults.

Construction Phase - Based on default CalEEMod construction schedule of 6 days a week.

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on applicant provided construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

Trips and VMT - Hauling trip length based on applicant provided information of 16 miles to Zanker Recycling.

Demolition - Based on applicant provided information.

Grading -

Architectural Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Vehicle Trips - Default trip gen rates.

Woodstoves - BAAQMD Regulation 6 Rule 3, No woodburning devices

Area Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

Solid Waste -

Construction Off-road Equipment Mitigation - Pursuant to Palo Alto Comprehensive Plan Polich N-5.5 and Comprehensive Plan EIR Mitigation Measure AIR-2a, comply with BAAQMD Basic Construction Mitigation Measures. All equipment will be equipped with DPFs according to applicant provided information.

Area Mitigation -

Energy Mitigation - Pursuant to Section 150.1(b)14 of the 2019 Building Energy Efficiency Standards, residential uses under three stories must install PV solar panels that generate an amount of electricity equal to expected electricity usage.

Water Mitigation - Pursuant to CalGreen 20 percent reduction in indoor water use.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 3,700.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 11,100.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 151,864.00 | 131,036.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 455,591.00 | 393,109.00 |
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 150.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 150 | 100 |
| tblAreaCoating | Area_EF_Parking | 150 | 100 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblAreaCoating | Area_EF_Residential_Exterior | 150 | 100 |
| tblAreaCoating | Area_Nonresidential_Exterior | 3700 | 0 |
| tblAreaCoating | Area_Nonresidential_Interior | 11100 | 0 |
| tblAreaCoating | Area_Residential_Exterior | 151864 | 131036 |
| tblAreaCoating | Area_Residential_Interior | 455591 | 393109 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 100 | 150 |
| tblAreaMitigation | UseLowVOCPaintParkingValue | 100 | 150 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 100 | 150 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstructionPhase | NumDays | 18.00 | 160.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 43.95 | 0.00 |
| tblFireplaces | NumberNoFireplace | 11.72 | 0.00 |
| tblFireplaces | NumberWood | 49.81 | 0.00 |
| tblLandUse | LandUseSquareFeet | 293,000.00 | 224,983.00 |
| tblLandUse | LotAcreage | 0.17 | 0.00 |
| tblLandUse | LotAcreage | 0.32 | 0.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| 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 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 5.86 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.86 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

## 2.0 Emissions Summary

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 2.1 Overall Construction (Maximum Daily Emission)

### 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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 17.9602 | 33.1151 | 25.5367 | 0.0567 | 19.8049 | 1.6134 | 21.4182 | 10.1417 | 1.4843 | 11.6260 | 0.0000 | 5,597.6377 | 5,597.6377 | 1.1958 | 0.1668 | 5,664.8665 |
| 2023 | 17.7228 | 17.5977 | 24.8216 | 0.0557 | 2.3975 | 0.7904 | 3.1879 | 0.6413 | 0.7478 | 1.3891 | 0.0000 | 5,514.6337 | 5,514.6337 | 0.6886 | 0.1580 | 5,578.9305 |
| **Maximum** | **17.9602** | **33.1151** | **25.5367** | **0.0567** | **19.8049** | **1.6134** | **21.4182** | **10.1417** | **1.4843** | **11.6260** | **0.0000** | **5,597.6377** | **5,597.6377** | **1.1958** | **0.1668** | **5,664.8665** |

### 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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 17.9602 | 33.1151 | 25.5367 | 0.0567 | 8.9935 | 0.4812 | 9.4747 | 4.5853 | 0.4427 | 5.0280 | 0.0000 | 5,597.6377 | 5,597.6377 | 1.1958 | 0.1668 | 5,664.8665 |
| 2023 | 17.7228 | 17.5977 | 24.8216 | 0.0557 | 2.3975 | 0.1848 | 2.5646 | 0.6413 | 0.1717 | 0.7927 | 0.0000 | 5,514.6337 | 5,514.6337 | 0.6886 | 0.1580 | 5,578.9305 |
| **Maximum** | **17.9602** | **33.1151** | **25.5367** | **0.0567** | **8.9935** | **0.4812** | **9.4747** | **4.5853** | **0.4427** | **5.0280** | **0.0000** | **5,597.6377** | **5,597.6377** | **1.1958** | **0.1668** | **5,664.8665** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 48.69 | 72.30 | 51.07 | 51.53 | 72.48 | 55.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.3717 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | 0.0000 | 43.5353 | 43.5353 | 0.0418 | 0.0000 | 44.5800 |
| Energy | 0.0761 | 0.6523 | 0.2909 | 4.1500e-003 | | 0.0526 | 0.0526 | | 0.0526 | 0.0526 | | 830.2054 | 830.2054 | 0.0159 | 0.0152 | 835.1389 |
| Mobile | 4.2502 | 3.9368 | 35.2461 | 0.0767 | 8.1109 | 0.0542 | 8.1651 | 2.1602 | 0.0505 | 2.2107 | | 7,935.4749 | 7,935.4749 | 0.4669 | 0.3461 | 8,050.2950 |
| **Total** | **10.6980** | **4.8675** | **59.7042** | **0.0822** | **8.1109** | **0.2407** | **8.3516** | **2.1602** | **0.2370** | **2.3973** | **0.0000** | **8,809.2156** | **8,809.2156** | **0.5246** | **0.3614** | **8,930.0139** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.3717 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | 0.0000 | 43.5353 | 43.5353 | 0.0418 | 0.0000 | 44.5800 |
| Energy | 0.0761 | 0.6523 | 0.2909 | 4.1500e-003 | | 0.0526 | 0.0526 | | 0.0526 | 0.0526 | | 830.2054 | 830.2054 | 0.0159 | 0.0152 | 835.1389 |
| Mobile | 4.2502 | 3.9368 | 35.2461 | 0.0767 | 8.1109 | 0.0542 | 8.1651 | 2.1602 | 0.0505 | 2.2107 | | 7,935.4749 | 7,935.4749 | 0.4669 | 0.3461 | 8,050.2950 |
| **Total** | **10.6980** | **4.8675** | **59.7042** | **0.0822** | **8.1109** | **0.2407** | **8.3516** | **2.1602** | **0.2370** | **2.3973** | **0.0000** | **8,809.2156** | **8,809.2156** | **0.5246** | **0.3614** | **8,930.0139** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | 6/1/2022 | 6/6/2022 | 6 | 5 | |
| 2 | Grading | Grading | 6/8/2022 | 6/16/2022 | 6 | 8 | |
| 3 | Building Construction | Building Construction | 6/18/2022 | 3/13/2023 | 6 | 230 | |
| 4 | Paving | Paving | 5/6/2023 | 5/26/2023 | 6 | 18 | |
| 5 | Architectural Coating | Architectural Coating | 9/10/2022 | 3/15/2023 | 6 | 160 | |

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 393,109; Residential Outdoor: 131,036; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 864 (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 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |

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

| | | | | | |
|---|---|---|---|---|---|
| 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 | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 219.00 | 35.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 44.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.2 Site Preparation - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| **Total** | **3.1701** | **33.0835** | **19.6978** | **0.0380** | **19.6570** | **1.6126** | **21.2696** | **10.1025** | **1.4836** | **11.5860** | | **3,686.0619** | **3,686.0619** | **1.1922** | | **3,715.8655** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0524 | 0.0316 | 0.4653 | 1.3200e-003 | 0.1479 | 7.7000e-004 | 0.1486 | 0.0392 | 7.1000e-004 | 0.0399 | | 134.6513 | 134.6513 | 3.6700e-003 | 3.3600e-003 | 135.7437 |
| **Total** | **0.0524** | **0.0316** | **0.4653** | **1.3200e-003** | **0.1479** | **7.7000e-004** | **0.1486** | **0.0392** | **7.1000e-004** | **0.0399** | | **134.6513** | **134.6513** | **3.6700e-003** | **3.3600e-003** | **135.7437** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.2 Site Preparation - 2022

### 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 | | | | | 8.8457 | 0.0000 | 8.8457 | 4.5461 | 0.0000 | 4.5461 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 0.4804 | 0.4804 | | 0.4420 | 0.4420 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| **Total** | **3.1701** | **33.0835** | **19.6978** | **0.0380** | **8.8457** | **0.4804** | **9.3260** | **4.5461** | **0.4420** | **4.9881** | **0.0000** | **3,686.0619** | **3,686.0619** | **1.1922** | | **3,715.8655** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0524 | 0.0316 | 0.4653 | 1.3200e-003 | 0.1479 | 7.7000e-004 | 0.1486 | 0.0392 | 7.1000e-004 | 0.0399 | | 134.6513 | 134.6513 | 3.6700e-003 | 3.3600e-003 | 135.7437 |
| **Total** | **0.0524** | **0.0316** | **0.4653** | **1.3200e-003** | **0.1479** | **7.7000e-004** | **0.1486** | **0.0392** | **7.1000e-004** | **0.0399** | | **134.6513** | **134.6513** | **3.6700e-003** | **3.3600e-003** | **135.7437** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.3 Grading - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.0826 | 0.0000 | 7.0826 | 3.4247 | 0.0000 | 3.4247 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9486 | 20.8551 | 15.2727 | 0.0297 | | 0.9409 | 0.9409 | | 0.8656 | 0.8656 | | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |
| **Total** | **1.9486** | **20.8551** | **15.2727** | **0.0297** | **7.0826** | **0.9409** | **8.0234** | **3.4247** | **0.8656** | **4.2903** | | **2,872.0464** | **2,872.0464** | **0.9289** | | **2,895.2684** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0436 | 0.0263 | 0.3878 | 1.1000e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.9000e-004 | 0.0333 | | 112.2095 | 112.2095 | 3.0600e-003 | 2.8000e-003 | 113.1197 |
| **Total** | **0.0436** | **0.0263** | **0.3878** | **1.1000e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.9000e-004** | **0.0333** | | **112.2095** | **112.2095** | **3.0600e-003** | **2.8000e-003** | **113.1197** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.3 Grading - 2022

### 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 | | | | | 3.1872 | 0.0000 | 3.1872 | 1.5411 | 0.0000 | 1.5411 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9486 | 20.8551 | 15.2727 | 0.0297 | | -0.1521 | -0.1521 | | -0.1399 | -0.1399 | 0.0000 | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |
| **Total** | **1.9486** | **20.8551** | **15.2727** | **0.0297** | **3.1872** | **-0.1521** | **3.0351** | **1.5411** | **-0.1399** | **1.4012** | **0.0000** | **2,872.0464** | **2,872.0464** | **0.9289** | | **2,895.2684** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0436 | 0.0263 | 0.3878 | 1.1000e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.9000e-004 | 0.0333 | | 112.2095 | 112.2095 | 3.0600e-003 | 2.8000e-003 | 113.1197 |
| **Total** | **0.0436** | **0.0263** | **0.3878** | **1.1000e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.9000e-004** | **0.0333** | | **112.2095** | **112.2095** | **3.0600e-003** | **2.8000e-003** | **113.1197** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.4 Building Construction - 2022

### Unmitigated Construction On-Site

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

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0755 | 1.8881 | 0.5608 | 7.4100e-003 | 0.2370 | 0.0201 | 0.2571 | 0.0682 | 0.0192 | 0.0875 | | 794.4505 | 794.4505 | 0.0173 | 0.1177 | 829.9625 |
| Worker | 0.6371 | 0.3842 | 5.6615 | 0.0161 | 1.7990 | 9.4000e-003 | 1.8084 | 0.4772 | 8.6600e-003 | 0.4858 | | 1,638.2579 | 1,638.2579 | 0.0447 | 0.0409 | 1,651.5478 |
| **Total** | **0.7126** | **2.2722** | **6.2223** | **0.0235** | **2.0361** | **0.0295** | **2.0656** | **0.5454** | **0.0279** | **0.5733** | | **2,432.7084** | **2,432.7084** | **0.0620** | **0.1586** | **2,481.5103** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.4 Building Construction - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.3573 | 0.3573 | | 0.3413 | 0.3413 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| **Total** | **1.7062** | **15.6156** | **16.3634** | **0.0269** | | **0.3573** | **0.3573** | | **0.3413** | **0.3413** | **0.0000** | **2,554.3336** | **2,554.3336** | **0.6120** | | **2,569.6322** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0755 | 1.8881 | 0.5608 | 7.4100e-003 | 0.2370 | 0.0201 | 0.2571 | 0.0682 | 0.0192 | 0.0875 | | 794.4505 | 794.4505 | 0.0173 | 0.1177 | 829.9625 |
| Worker | 0.6371 | 0.3842 | 5.6615 | 0.0161 | 1.7990 | 9.4000e-003 | 1.8084 | 0.4772 | 8.6600e-003 | 0.4858 | | 1,638.2579 | 1,638.2579 | 0.0447 | 0.0409 | 1,651.5478 |
| **Total** | **0.7126** | **2.2722** | **6.2223** | **0.0235** | **2.0361** | **0.0295** | **2.0656** | **0.5454** | **0.0279** | **0.5733** | | **2,432.7084** | **2,432.7084** | **0.0620** | **0.1586** | **2,481.5103** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.4 Building Construction - 2023

### Unmitigated Construction On-Site

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

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0381 | 1.5012 | 0.4794 | 7.0900e-003 | 0.2370 | 9.0900e-003 | 0.2461 | 0.0682 | 8.6900e-003 | 0.0769 | | 761.1136 | 761.1136 | 0.0156 | 0.1125 | 795.0329 |
| Worker | 0.5924 | 0.3403 | 5.2353 | 0.0156 | 1.7990 | 8.9200e-003 | 1.8080 | 0.4772 | 8.2100e-003 | 0.4854 | | 1,596.1704 | 1,596.1704 | 0.0403 | 0.0379 | 1,608.4613 |
| **Total** | **0.6305** | **1.8415** | **5.7147** | **0.0227** | **2.0361** | **0.0180** | **2.0541** | **0.5454** | **0.0169** | **0.5623** | | **2,357.2840** | **2,357.2840** | **0.0558** | **0.1504** | **2,403.4943** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.4 Building Construction - 2023

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.3173 | 0.3173 | | 0.3028 | 0.3028 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **1.5728** | **14.3849** | **16.2440** | **0.0269** | | **0.3173** | **0.3173** | | **0.3028** | **0.3028** | **0.0000** | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0381 | 1.5012 | 0.4794 | 7.0900e-003 | 0.2370 | 9.0900e-003 | 0.2461 | 0.0682 | 8.6900e-003 | 0.0769 | | 761.1136 | 761.1136 | 0.0156 | 0.1125 | 795.0329 |
| Worker | 0.5924 | 0.3403 | 5.2353 | 0.0156 | 1.7990 | 8.9200e-003 | 1.8080 | 0.4772 | 8.2100e-003 | 0.4854 | | 1,596.1704 | 1,596.1704 | 0.0403 | 0.0379 | 1,608.4613 |
| **Total** | **0.6305** | **1.8415** | **5.7147** | **0.0227** | **2.0361** | **0.0180** | **2.0541** | **0.5454** | **0.0169** | **0.5623** | | **2,357.2840** | **2,357.2840** | **0.0558** | **0.1504** | **2,403.4943** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.5 Paving - 2023

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9181 | 8.7903 | 12.1905 | 0.0189 | | 0.4357 | 0.4357 | | 0.4025 | 0.4025 | | 1,805.4304 | 1,805.4304 | 0.5673 | | 1,819.6122 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9181** | **8.7903** | **12.1905** | **0.0189** | | **0.4357** | **0.4357** | | **0.4025** | **0.4025** | | **1,805.4304** | **1,805.4304** | **0.5673** | | **1,819.6122** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0541 | 0.0311 | 0.4781 | 1.4200e-003 | 0.1643 | 8.1000e-004 | 0.1651 | 0.0436 | 7.5000e-004 | 0.0443 | | 145.7690 | 145.7690 | 3.6800e-003 | 3.4600e-003 | 146.8915 |
| **Total** | **0.0541** | **0.0311** | **0.4781** | **1.4200e-003** | **0.1643** | **8.1000e-004** | **0.1651** | **0.0436** | **7.5000e-004** | **0.0443** | | **145.7690** | **145.7690** | **3.6800e-003** | **3.4600e-003** | **146.8915** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.5 Paving - 2023

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9181 | 8.7903 | 12.1905 | 0.0189 | | 0.1840 | 0.1840 | | 0.1710 | 0.1710 | 0.0000 | 1,805.4304 | 1,805.4304 | 0.5673 | | 1,819.6122 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9181** | **8.7903** | **12.1905** | **0.0189** | | **0.1840** | **0.1840** | | **0.1710** | **0.1710** | **0.0000** | **1,805.4304** | **1,805.4304** | **0.5673** | | **1,819.6122** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0541 | 0.0311 | 0.4781 | 1.4200e-003 | 0.1643 | 8.1000e-004 | 0.1651 | 0.0436 | 7.5000e-004 | 0.0443 | | 145.7690 | 145.7690 | 3.6800e-003 | 3.4600e-003 | 146.8915 |
| **Total** | **0.0541** | **0.0311** | **0.4781** | **1.4200e-003** | **0.1643** | **8.1000e-004** | **0.1651** | **0.0436** | **7.5000e-004** | **0.0443** | | **145.7690** | **145.7690** | **3.6800e-003** | **3.4600e-003** | **146.8915** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.6 Architectural Coating - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.2089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **15.4134** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.1280 | 0.0772 | 1.1375 | 3.2400e-003 | 0.3615 | 1.8900e-003 | 0.3633 | 0.0959 | 1.7400e-003 | 0.0976 | | 329.1477 | 329.1477 | 8.9700e-003 | 8.2100e-003 | 331.8178 |
| **Total** | **0.1280** | **0.0772** | **1.1375** | **3.2400e-003** | **0.3615** | **1.8900e-003** | **0.3633** | **0.0959** | **1.7400e-003** | **0.0976** | | **329.1477** | **329.1477** | **8.9700e-003** | **8.2100e-003** | **331.8178** |

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

## 3.6 Architectural Coating - 2022

### 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 | 15.2089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | -0.1961 | -0.1961 | | -0.1961 | -0.1961 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **15.4134** | **1.4085** | **1.8136** | **2.9700e-003** | | **-0.1961** | **-0.1961** | | **-0.1961** | **-0.1961** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.1280 | 0.0772 | 1.1375 | 3.2400e-003 | 0.3615 | 1.8900e-003 | 0.3633 | 0.0959 | 1.7400e-003 | 0.0976 | | 329.1477 | 329.1477 | 8.9700e-003 | 8.2100e-003 | 331.8178 |
| **Total** | **0.1280** | **0.0772** | **1.1375** | **3.2400e-003** | **0.3615** | **1.8900e-003** | **0.3633** | **0.0959** | **1.7400e-003** | **0.0976** | | **329.1477** | **329.1477** | **8.9700e-003** | **8.2100e-003** | **331.8178** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.6 Architectural Coating - 2023

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.2089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| **Total** | **15.4005** | **1.3030** | **1.8111** | **2.9700e-003** | | **0.0708** | **0.0708** | | **0.0708** | **0.0708** | | **281.4481** | **281.4481** | **0.0168** | | **281.8690** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.1190 | 0.0684 | 1.0518 | 3.1300e-003 | 0.3615 | 1.7900e-003 | 0.3632 | 0.0959 | 1.6500e-003 | 0.0975 | | 320.6918 | 320.6918 | 8.0900e-003 | 7.6100e-003 | 323.1612 |
| **Total** | **0.1190** | **0.0684** | **1.0518** | **3.1300e-003** | **0.3615** | **1.7900e-003** | **0.3632** | **0.0959** | **1.6500e-003** | **0.0975** | | **320.6918** | **320.6918** | **8.0900e-003** | **7.6100e-003** | **323.1612** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 3.6 Architectural Coating - 2023

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.2089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | -0.1700 | -0.1700 | | -0.1700 | -0.1700 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| **Total** | **15.4005** | **1.3030** | **1.8111** | **2.9700e-003** | | **-0.1700** | **-0.1700** | | **-0.1700** | **-0.1700** | **0.0000** | **281.4481** | **281.4481** | **0.0168** | | **281.8690** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.1190 | 0.0684 | 1.0518 | 3.1300e-003 | 0.3615 | 1.7900e-003 | 0.3632 | 0.0959 | 1.6500e-003 | 0.0975 | | 320.6918 | 320.6918 | 8.0900e-003 | 7.6100e-003 | 323.1612 |
| **Total** | **0.1190** | **0.0684** | **1.0518** | **3.1300e-003** | **0.3615** | **1.7900e-003** | **0.3632** | **0.0959** | **1.6500e-003** | **0.0975** | | **320.6918** | **320.6918** | **8.0900e-003** | **7.6100e-003** | **323.1612** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 4.2502 | 3.9368 | 35.2461 | 0.0767 | 8.1109 | 0.0542 | 8.1651 | 2.1602 | 0.0505 | 2.2107 | | 7,935.4749 | 7,935.4749 | 0.4669 | 0.3461 | 8,050.2950 |
| Unmitigated | 4.2502 | 3.9368 | 35.2461 | 0.0767 | 8.1109 | 0.0542 | 8.1651 | 2.1602 | 0.0505 | 2.2107 | | 7,935.4749 | 7,935.4749 | 0.4669 | 0.3461 | 8,050.2950 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 1,593.92 | 1,438.63 | 1198.37 | 3,499,583 | 3,499,583 |
| General Office Building | 72.08 | 16.35 | 5.18 | 130,383 | 130,383 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 1,666.00 | 1,454.98 | 1,203.55 | 3,629,966 | 3,629,966 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

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

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Condo/Townhouse High Rise | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |
| General Office Building | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |
| Parking Lot | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0761 | 0.6523 | 0.2909 | 4.1500e-003 | | 0.0526 | 0.0526 | | 0.0526 | 0.0526 | | 830.2054 | 830.2054 | 0.0159 | 0.0152 | 835.1389 |
| NaturalGas Unmitigated | 0.0761 | 0.6523 | 0.2909 | 4.1500e-003 | | 0.0526 | 0.0526 | | 0.0526 | 0.0526 | | 830.2054 | 830.2054 | 0.0159 | 0.0152 | 835.1389 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse High Rise | 6728.31 | 0.0726 | 0.6201 | 0.2639 | 3.9600e-003 | | 0.0501 | 0.0501 | | 0.0501 | 0.0501 | | 791.5656 | 791.5656 | 0.0152 | 0.0145 | 796.2695 |
| General Office Building | 328.438 | 3.5400e-003 | 0.0322 | 0.0271 | 1.9000e-004 | | 2.4500e-003 | 2.4500e-003 | | 2.4500e-003 | 2.4500e-003 | | 38.6398 | 38.6398 | 7.4000e-004 | 7.1000e-004 | 38.8694 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0761** | **0.6523** | **0.2909** | **4.1500e-003** | | **0.0526** | **0.0526** | | **0.0526** | **0.0526** | | **830.2054** | **830.2054** | **0.0159** | **0.0152** | **835.1389** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse High Rise | 6.72831 | 0.0726 | 0.6201 | 0.2639 | 3.9600e-003 | | 0.0501 | 0.0501 | | 0.0501 | 0.0501 | | 791.5656 | 791.5656 | 0.0152 | 0.0145 | 796.2695 |
| General Office Building | 0.328438 | 3.5400e-003 | 0.0322 | 0.0271 | 1.9000e-004 | | 2.4500e-003 | 2.4500e-003 | | 2.4500e-003 | 2.4500e-003 | | 38.6398 | 38.6398 | 7.4000e-004 | 7.1000e-004 | 38.8694 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0761** | **0.6523** | **0.2909** | **4.1500e-003** | | **0.0526** | **0.0526** | | **0.0526** | **0.0526** | | **830.2054** | **830.2054** | **0.0159** | **0.0152** | **835.1389** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

No Hearths Installed

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6.3717 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | 0.0000 | 43.5353 | 43.5353 | 0.0418 | 0.0000 | 44.5800 |
| Unmitigated | 6.3717 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | 0.0000 | 43.5353 | 43.5353 | 0.0418 | 0.0000 | 44.5800 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.6667 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4.9781 | | | | | 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 | 0.7269 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | | 43.5353 | 43.5353 | 0.0418 | | 44.5800 |
| **Total** | **6.3717** | **0.2784** | **24.1671** | **1.2800e-003** | | **0.1339** | **0.1339** | | **0.1339** | **0.1339** | **0.0000** | **43.5353** | **43.5353** | **0.0418** | **0.0000** | **44.5800** |

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.6667 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4.9781 | | | | | 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 | 0.7269 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | | 43.5353 | 43.5353 | 0.0418 | | 44.5800 |
| **Total** | **6.3717** | **0.2784** | **24.1671** | **1.2800e-003** | | **0.1339** | **0.1339** | | **0.1339** | **0.1339** | **0.0000** | **43.5353** | **43.5353** | **0.0418** | **0.0000** | **44.5800** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Summer

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

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## 10.0 Stationary Equipment

**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

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

# 200 Portage Avenue Air Quality Alternative 2

**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 | 7.40 | 1000sqft | 0.00 | 7,400.00 | 0 |
| Parking Lot | 36.00 | Space | 0.00 | 14,400.00 | 0 |
| Condo/Townhouse High Rise | 293.00 | Dwelling Unit | 4.58 | 224,983.00 | 838 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2024 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Residential square footage based on Alternative 2 data. Existing 7,400 sf commercial space to remain. Surface parking square footage based on CalEEMod defaults.

Construction Phase - Based on default CalEEMod construction schedule of 6 days a week.

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on applicant provided construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

Trips and VMT - Hauling trip length based on applicant provided information of 16 miles to Zanker Recycling.

Demolition - Based on applicant provided information.

Grading -

Architectural Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Vehicle Trips - Default trip gen rates.

Woodstoves - BAAQMD Regulation 6 Rule 3, No woodburning devices

Area Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

Solid Waste -

Construction Off-road Equipment Mitigation - Pursuant to Palo Alto Comprehensive Plan Polich N-5.5 and Comprehensive Plan EIR Mitigation Measure AIR-2a, comply with BAAQMD Basic Construction Mitigation Measures. All equipment will be equipped with DPFs according to applicant provided information.

Area Mitigation -

Energy Mitigation - Pursuant to Section 150.1(b)14 of the 2019 Building Energy Efficiency Standards, residential uses under three stories must install PV solar panels that generate an amount of electricity equal to expected electricity usage.

Water Mitigation - Pursuant to CalGreen 20 percent reduction in indoor water use.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 3,700.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 11,100.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 151,864.00 | 131,036.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 455,591.00 | 393,109.00 |
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 150.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 150 | 100 |
| tblAreaCoating | Area_EF_Parking | 150 | 100 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblAreaCoating | Area_EF_Residential_Exterior | 150 | 100 |
| tblAreaCoating | Area_Nonresidential_Exterior | 3700 | 0 |
| tblAreaCoating | Area_Nonresidential_Interior | 11100 | 0 |
| tblAreaCoating | Area_Residential_Exterior | 151864 | 131036 |
| tblAreaCoating | Area_Residential_Interior | 455591 | 393109 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 100 | 150 |
| tblAreaMitigation | UseLowVOCPaintParkingValue | 100 | 150 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 100 | 150 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstructionPhase | NumDays | 18.00 | 160.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 43.95 | 0.00 |
| tblFireplaces | NumberNoFireplace | 11.72 | 0.00 |
| tblFireplaces | NumberWood | 49.81 | 0.00 |
| tblLandUse | LandUseSquareFeet | 293,000.00 | 224,983.00 |
| tblLandUse | LotAcreage | 0.17 | 0.00 |
| tblLandUse | LotAcreage | 0.32 | 0.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| 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 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 5.86 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.86 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

## 2.0 Emissions Summary

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 2.1 Overall Construction (Maximum Daily Emission)

### 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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 17.9759 | 33.1225 | 25.2423 | 0.0553 | 19.8049 | 1.6134 | 21.4182 | 10.1417 | 1.4843 | 11.6260 | 0.0000 | 5,458.1550 | 5,458.1550 | 1.1963 | 0.1744 | 5,527.8301 |
| 2023 | 17.7397 | 17.7806 | 24.5724 | 0.0544 | 2.3975 | 0.7904 | 3.1879 | 0.6413 | 0.7478 | 1.3891 | 0.0000 | 5,379.8516 | 5,379.8516 | 0.6951 | 0.1652 | 5,446.4438 |
| **Maximum** | **17.9759** | **33.1225** | **25.2423** | **0.0553** | **19.8049** | **1.6134** | **21.4182** | **10.1417** | **1.4843** | **11.6260** | **0.0000** | **5,458.1550** | **5,458.1550** | **1.1963** | **0.1744** | **5,527.8301** |

### 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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 17.9759 | 33.1225 | 25.2423 | 0.0553 | 8.9935 | 0.4812 | 9.4747 | 4.5853 | 0.4427 | 5.0280 | 0.0000 | 5,458.1550 | 5,458.1550 | 1.1963 | 0.1744 | 5,527.8301 |
| 2023 | 17.7397 | 17.7806 | 24.5724 | 0.0544 | 2.3975 | 0.1848 | 2.5647 | 0.6413 | 0.1717 | 0.7927 | 0.0000 | 5,379.8516 | 5,379.8516 | 0.6951 | 0.1652 | 5,446.4438 |
| **Maximum** | **17.9759** | **33.1225** | **25.2423** | **0.0553** | **8.9935** | **0.4812** | **9.4747** | **4.5853** | **0.4427** | **5.0280** | **0.0000** | **5,458.1550** | **5,458.1550** | **1.1963** | **0.1744** | **5,527.8301** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 48.69 | 72.30 | 51.07 | 51.53 | 72.48 | 55.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.3717 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | 0.0000 | 43.5353 | 43.5353 | 0.0418 | 0.0000 | 44.5800 |
| Energy | 0.0761 | 0.6523 | 0.2909 | 4.1500e-003 | | 0.0526 | 0.0526 | | 0.0526 | 0.0526 | | 830.2054 | 830.2054 | 0.0159 | 0.0152 | 835.1389 |
| Mobile | 3.8250 | 4.5314 | 37.7804 | 0.0725 | 8.1109 | 0.0543 | 8.1651 | 2.1602 | 0.0505 | 2.2108 | | 7,493.4024 | 7,493.4024 | 0.5300 | 0.3796 | 7,619.7751 |
| **Total** | **10.2728** | **5.4621** | **62.2385** | **0.0779** | **8.1109** | **0.2408** | **8.3516** | **2.1602** | **0.2371** | **2.3973** | **0.0000** | **8,367.1431** | **8,367.1431** | **0.5877** | **0.3948** | **8,499.4940** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.3717 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | 0.0000 | 43.5353 | 43.5353 | 0.0418 | 0.0000 | 44.5800 |
| Energy | 0.0761 | 0.6523 | 0.2909 | 4.1500e-003 | | 0.0526 | 0.0526 | | 0.0526 | 0.0526 | | 830.2054 | 830.2054 | 0.0159 | 0.0152 | 835.1389 |
| Mobile | 3.8250 | 4.5314 | 37.7804 | 0.0725 | 8.1109 | 0.0543 | 8.1651 | 2.1602 | 0.0505 | 2.2108 | | 7,493.4024 | 7,493.4024 | 0.5300 | 0.3796 | 7,619.7751 |
| **Total** | **10.2728** | **5.4621** | **62.2385** | **0.0779** | **8.1109** | **0.2408** | **8.3516** | **2.1602** | **0.2371** | **2.3973** | **0.0000** | **8,367.1431** | **8,367.1431** | **0.5877** | **0.3948** | **8,499.4940** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | 6/1/2022 | 6/6/2022 | 6 | 5 | |
| 2 | Grading | Grading | 6/8/2022 | 6/16/2022 | 6 | 8 | |
| 3 | Building Construction | Building Construction | 6/18/2022 | 3/13/2023 | 6 | 230 | |
| 4 | Paving | Paving | 5/6/2023 | 5/26/2023 | 6 | 18 | |
| 5 | Architectural Coating | Architectural Coating | 9/10/2022 | 3/15/2023 | 6 | 160 | |

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 393,109; Residential Outdoor: 131,036; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 864 (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 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

| | | | | | |
|---|---|---|---|---|---|
| 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 | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 219.00 | 35.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 44.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.2 Site Preparation - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| **Total** | **3.1701** | **33.0835** | **19.6978** | **0.0380** | **19.6570** | **1.6126** | **21.2696** | **10.1025** | **1.4836** | **11.5860** | | **3,686.0619** | **3,686.0619** | **1.1922** | | **3,715.8655** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0535 | 0.0390 | 0.4438 | 1.2300e-003 | 0.1479 | 7.7000e-004 | 0.1486 | 0.0392 | 7.1000e-004 | 0.0399 | | 125.0830 | 125.0830 | 4.1600e-003 | 3.8700e-003 | 126.3392 |
| **Total** | **0.0535** | **0.0390** | **0.4438** | **1.2300e-003** | **0.1479** | **7.7000e-004** | **0.1486** | **0.0392** | **7.1000e-004** | **0.0399** | | **125.0830** | **125.0830** | **4.1600e-003** | **3.8700e-003** | **126.3392** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.2 Site Preparation - 2022

### 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 | | | | | 8.8457 | 0.0000 | 8.8457 | 4.5461 | 0.0000 | 4.5461 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 0.4804 | 0.4804 | | 0.4420 | 0.4420 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| **Total** | **3.1701** | **33.0835** | **19.6978** | **0.0380** | **8.8457** | **0.4804** | **9.3260** | **4.5461** | **0.4420** | **4.9881** | **0.0000** | **3,686.0619** | **3,686.0619** | **1.1922** | | **3,715.8655** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0535 | 0.0390 | 0.4438 | 1.2300e-003 | 0.1479 | 7.7000e-004 | 0.1486 | 0.0392 | 7.1000e-004 | 0.0399 | | 125.0830 | 125.0830 | 4.1600e-003 | 3.8700e-003 | 126.3392 |
| **Total** | **0.0535** | **0.0390** | **0.4438** | **1.2300e-003** | **0.1479** | **7.7000e-004** | **0.1486** | **0.0392** | **7.1000e-004** | **0.0399** | | **125.0830** | **125.0830** | **4.1600e-003** | **3.8700e-003** | **126.3392** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.3 Grading - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.0826 | 0.0000 | 7.0826 | 3.4247 | 0.0000 | 3.4247 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9486 | 20.8551 | 15.2727 | 0.0297 | | 0.9409 | 0.9409 | | 0.8656 | 0.8656 | | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |
| **Total** | **1.9486** | **20.8551** | **15.2727** | **0.0297** | **7.0826** | **0.9409** | **8.0234** | **3.4247** | **0.8656** | **4.2903** | | **2,872.0464** | **2,872.0464** | **0.9289** | | **2,895.2684** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0446 | 0.0325 | 0.3699 | 1.0200e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.9000e-004 | 0.0333 | | 104.2358 | 104.2358 | 3.4600e-003 | 3.2200e-003 | 105.2827 |
| **Total** | **0.0446** | **0.0325** | **0.3699** | **1.0200e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.9000e-004** | **0.0333** | | **104.2358** | **104.2358** | **3.4600e-003** | **3.2200e-003** | **105.2827** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.3 Grading - 2022

### 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 | | | | | 3.1872 | 0.0000 | 3.1872 | 1.5411 | 0.0000 | 1.5411 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9486 | 20.8551 | 15.2727 | 0.0297 | | -0.1521 | -0.1521 | | -0.1399 | -0.1399 | 0.0000 | 2,872.0464 | 2,872.0464 | 0.9289 | | 2,895.2684 |
| **Total** | **1.9486** | **20.8551** | **15.2727** | **0.0297** | **3.1872** | **-0.1521** | **3.0351** | **1.5411** | **-0.1399** | **1.4012** | **0.0000** | **2,872.0464** | **2,872.0464** | **0.9289** | | **2,895.2684** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0446 | 0.0325 | 0.3699 | 1.0200e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.9000e-004 | 0.0333 | | 104.2358 | 104.2358 | 3.4600e-003 | 3.2200e-003 | 105.2827 |
| **Total** | **0.0446** | **0.0325** | **0.3699** | **1.0200e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.9000e-004** | **0.0333** | | **104.2358** | **104.2358** | **3.4600e-003** | **3.2200e-003** | **105.2827** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.4 Building Construction - 2022

### Unmitigated Construction On-Site

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

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0747 | 1.9912 | 0.5804 | 7.4100e-003 | 0.2370 | 0.0202 | 0.2572 | 0.0682 | 0.0193 | 0.0875 | | 794.7722 | 794.7722 | 0.0172 | 0.1179 | 830.3356 |
| Worker | 0.6508 | 0.4742 | 5.4000 | 0.0150 | 1.7990 | 9.4000e-003 | 1.8084 | 0.4772 | 8.6600e-003 | 0.4858 | | 1,521.8428 | 1,521.8428 | 0.0506 | 0.0471 | 1,537.1270 |
| **Total** | **0.7255** | **2.4654** | **5.9804** | **0.0224** | **2.0361** | **0.0296** | **2.0656** | **0.5454** | **0.0280** | **0.5734** | | **2,316.6150** | **2,316.6150** | **0.0678** | **0.1650** | **2,367.4626** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.4 Building Construction - 2022

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.3573 | 0.3573 | | 0.3413 | 0.3413 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| **Total** | **1.7062** | **15.6156** | **16.3634** | **0.0269** | | **0.3573** | **0.3573** | | **0.3413** | **0.3413** | **0.0000** | **2,554.3336** | **2,554.3336** | **0.6120** | | **2,569.6322** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0747 | 1.9912 | 0.5804 | 7.4100e-003 | 0.2370 | 0.0202 | 0.2572 | 0.0682 | 0.0193 | 0.0875 | | 794.7722 | 794.7722 | 0.0172 | 0.1179 | 830.3356 |
| Worker | 0.6508 | 0.4742 | 5.4000 | 0.0150 | 1.7990 | 9.4000e-003 | 1.8084 | 0.4772 | 8.6600e-003 | 0.4858 | | 1,521.8428 | 1,521.8428 | 0.0506 | 0.0471 | 1,537.1270 |
| **Total** | **0.7255** | **2.4654** | **5.9804** | **0.0224** | **2.0361** | **0.0296** | **2.0656** | **0.5454** | **0.0280** | **0.5734** | | **2,316.6150** | **2,316.6150** | **0.0678** | **0.1650** | **2,367.4626** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.4 Building Construction - 2023

### Unmitigated Construction On-Site

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

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0368 | 1.5885 | 0.4958 | 7.1000e-003 | 0.2370 | 9.1300e-003 | 0.2462 | 0.0682 | 8.7300e-003 | 0.0770 | | 762.2023 | 762.2023 | 0.0155 | 0.1128 | 796.2045 |
| Worker | 0.6075 | 0.4199 | 5.0141 | 0.0145 | 1.7990 | 8.9200e-003 | 1.8080 | 0.4772 | 8.2100e-003 | 0.4854 | | 1,483.0308 | 1,483.0308 | 0.0457 | 0.0436 | 1,497.1642 |
| **Total** | **0.6443** | **2.0084** | **5.5099** | **0.0216** | **2.0361** | **0.0181** | **2.0541** | **0.5454** | **0.0169** | **0.5624** | | **2,245.2331** | **2,245.2331** | **0.0612** | **0.1564** | **2,293.3687** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.4 Building Construction - 2023

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.3173 | 0.3173 | | 0.3028 | 0.3028 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **1.5728** | **14.3849** | **16.2440** | **0.0269** | | **0.3173** | **0.3173** | | **0.3028** | **0.3028** | **0.0000** | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0368 | 1.5885 | 0.4958 | 7.1000e-003 | 0.2370 | 9.1300e-003 | 0.2462 | 0.0682 | 8.7300e-003 | 0.0770 | | 762.2023 | 762.2023 | 0.0155 | 0.1128 | 796.2045 |
| Worker | 0.6075 | 0.4199 | 5.0141 | 0.0145 | 1.7990 | 8.9200e-003 | 1.8080 | 0.4772 | 8.2100e-003 | 0.4854 | | 1,483.0308 | 1,483.0308 | 0.0457 | 0.0436 | 1,497.1642 |
| **Total** | **0.6443** | **2.0084** | **5.5099** | **0.0216** | **2.0361** | **0.0181** | **2.0541** | **0.5454** | **0.0169** | **0.5624** | | **2,245.2331** | **2,245.2331** | **0.0612** | **0.1564** | **2,293.3687** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.5 Paving - 2023

### Unmitigated Construction 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 | 0.9181 | 8.7903 | 12.1905 | 0.0189 | | 0.4357 | 0.4357 | | 0.4025 | 0.4025 | | 1,805.4304 | 1,805.4304 | 0.5673 | | 1,819.6122 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9181** | **8.7903** | **12.1905** | **0.0189** | | **0.4357** | **0.4357** | | **0.4025** | **0.4025** | | **1,805.4304** | **1,805.4304** | **0.5673** | | **1,819.6122** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0555 | 0.0383 | 0.4579 | 1.3200e-003 | 0.1643 | 8.1000e-004 | 0.1651 | 0.0436 | 7.5000e-004 | 0.0443 | | 135.4366 | 135.4366 | 4.1800e-003 | 3.9800e-003 | 136.7273 |
| **Total** | **0.0555** | **0.0383** | **0.4579** | **1.3200e-003** | **0.1643** | **8.1000e-004** | **0.1651** | **0.0436** | **7.5000e-004** | **0.0443** | | **135.4366** | **135.4366** | **4.1800e-003** | **3.9800e-003** | **136.7273** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.5 Paving - 2023

### Mitigated Construction 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 | 0.9181 | 8.7903 | 12.1905 | 0.0189 | | 0.1840 | 0.1840 | | 0.1710 | 0.1710 | 0.0000 | 1,805.4304 | 1,805.4304 | 0.5673 | | 1,819.6122 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9181** | **8.7903** | **12.1905** | **0.0189** | | **0.1840** | **0.1840** | | **0.1710** | **0.1710** | **0.0000** | **1,805.4304** | **1,805.4304** | **0.5673** | | **1,819.6122** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0555 | 0.0383 | 0.4579 | 1.3200e-003 | 0.1643 | 8.1000e-004 | 0.1651 | 0.0436 | 7.5000e-004 | 0.0443 | | 135.4366 | 135.4366 | 4.1800e-003 | 3.9800e-003 | 136.7273 |
| **Total** | **0.0555** | **0.0383** | **0.4579** | **1.3200e-003** | **0.1643** | **8.1000e-004** | **0.1651** | **0.0436** | **7.5000e-004** | **0.0443** | | **135.4366** | **135.4366** | **4.1800e-003** | **3.9800e-003** | **136.7273** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.6 Architectural Coating - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.2089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **15.4134** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.1308 | 0.0953 | 1.0849 | 3.0100e-003 | 0.3615 | 1.8900e-003 | 0.3633 | 0.0959 | 1.7400e-003 | 0.0976 | | 305.7584 | 305.7584 | 0.0102 | 9.4500e-003 | 308.8292 |
| **Total** | **0.1308** | **0.0953** | **1.0849** | **3.0100e-003** | **0.3615** | **1.8900e-003** | **0.3633** | **0.0959** | **1.7400e-003** | **0.0976** | | **305.7584** | **305.7584** | **0.0102** | **9.4500e-003** | **308.8292** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.6 Architectural Coating - 2022

**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 | 15.2089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | -0.1961 | -0.1961 | | -0.1961 | -0.1961 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **15.4134** | **1.4085** | **1.8136** | **2.9700e-003** | | **-0.1961** | **-0.1961** | | **-0.1961** | **-0.1961** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.1308 | 0.0953 | 1.0849 | 3.0100e-003 | 0.3615 | 1.8900e-003 | 0.3633 | 0.0959 | 1.7400e-003 | 0.0976 | | 305.7584 | 305.7584 | 0.0102 | 9.4500e-003 | 308.8292 |
| **Total** | **0.1308** | **0.0953** | **1.0849** | **3.0100e-003** | **0.3615** | **1.8900e-003** | **0.3633** | **0.0959** | **1.7400e-003** | **0.0976** | | **305.7584** | **305.7584** | **0.0102** | **9.4500e-003** | **308.8292** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.6 Architectural Coating - 2023

### Unmitigated Construction 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 | 15.2089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| **Total** | **15.4005** | **1.3030** | **1.8111** | **2.9700e-003** | | **0.0708** | **0.0708** | | **0.0708** | **0.0708** | | **281.4481** | **281.4481** | **0.0168** | | **281.8690** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.1221 | 0.0844 | 1.0074 | 2.9100e-003 | 0.3615 | 1.7900e-003 | 0.3632 | 0.0959 | 1.6500e-003 | 0.0975 | | 297.9605 | 297.9605 | 9.1900e-003 | 8.7600e-003 | 300.8001 |
| **Total** | **0.1221** | **0.0844** | **1.0074** | **2.9100e-003** | **0.3615** | **1.7900e-003** | **0.3632** | **0.0959** | **1.6500e-003** | **0.0975** | | **297.9605** | **297.9605** | **9.1900e-003** | **8.7600e-003** | **300.8001** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 3.6 Architectural Coating - 2023

**Mitigated Construction 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 | 15.2089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | -0.1700 | -0.1700 | | -0.1700 | -0.1700 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| **Total** | **15.4005** | **1.3030** | **1.8111** | **2.9700e-003** | | **-0.1700** | **-0.1700** | | **-0.1700** | **-0.1700** | **0.0000** | **281.4481** | **281.4481** | **0.0168** | | **281.8690** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.1221 | 0.0844 | 1.0074 | 2.9100e-003 | 0.3615 | 1.7900e-003 | 0.3632 | 0.0959 | 1.6500e-003 | 0.0975 | | 297.9605 | 297.9605 | 9.1900e-003 | 8.7600e-003 | 300.8001 |
| **Total** | **0.1221** | **0.0844** | **1.0074** | **2.9100e-003** | **0.3615** | **1.7900e-003** | **0.3632** | **0.0959** | **1.6500e-003** | **0.0975** | | **297.9605** | **297.9605** | **9.1900e-003** | **8.7600e-003** | **300.8001** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.8250 | 4.5314 | 37.7804 | 0.0725 | 8.1109 | 0.0543 | 8.1651 | 2.1602 | 0.0505 | 2.2108 | | 7,493.4024 | 7,493.4024 | 0.5300 | 0.3796 | 7,619.7751 |
| Unmitigated | 3.8250 | 4.5314 | 37.7804 | 0.0725 | 8.1109 | 0.0543 | 8.1651 | 2.1602 | 0.0505 | 2.2108 | | 7,493.4024 | 7,493.4024 | 0.5300 | 0.3796 | 7,619.7751 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 1,593.92 | 1,438.63 | 1198.37 | 3,499,583 | 3,499,583 |
| General Office Building | 72.08 | 16.35 | 5.18 | 130,383 | 130,383 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 1,666.00 | 1,454.98 | 1,203.55 | 3,629,966 | 3,629,966 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Condo/Townhouse High Rise | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |
| General Office Building | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |
| Parking Lot | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0761 | 0.6523 | 0.2909 | 4.1500e-003 | | 0.0526 | 0.0526 | | 0.0526 | 0.0526 | | 830.2054 | 830.2054 | 0.0159 | 0.0152 | 835.1389 |
| NaturalGas Unmitigated | 0.0761 | 0.6523 | 0.2909 | 4.1500e-003 | | 0.0526 | 0.0526 | | 0.0526 | 0.0526 | | 830.2054 | 830.2054 | 0.0159 | 0.0152 | 835.1389 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 5.2 Energy by Land Use - 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 | 6728.31 | 0.0726 | 0.6201 | 0.2639 | 3.9600e-003 | | 0.0501 | 0.0501 | | 0.0501 | 0.0501 | | 791.5656 | 791.5656 | 0.0152 | 0.0145 | 796.2695 |
| General Office Building | 328.438 | 3.5400e-003 | 0.0322 | 0.0271 | 1.9000e-004 | | 2.4500e-003 | 2.4500e-003 | | 2.4500e-003 | 2.4500e-003 | | 38.6398 | 38.6398 | 7.4000e-004 | 7.1000e-004 | 38.8694 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0761** | **0.6523** | **0.2909** | **4.1500e-003** | | **0.0526** | **0.0526** | | **0.0526** | **0.0526** | | **830.2054** | **830.2054** | **0.0159** | **0.0152** | **835.1389** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse High Rise | 6.72831 | 0.0726 | 0.6201 | 0.2639 | 3.9600e-003 | | 0.0501 | 0.0501 | | 0.0501 | 0.0501 | | 791.5656 | 791.5656 | 0.0152 | 0.0145 | 796.2695 |
| General Office Building | 0.328438 | 3.5400e-003 | 0.0322 | 0.0271 | 1.9000e-004 | | 2.4500e-003 | 2.4500e-003 | | 2.4500e-003 | 2.4500e-003 | | 38.6398 | 38.6398 | 7.4000e-004 | 7.1000e-004 | 38.8694 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0761** | **0.6523** | **0.2909** | **4.1500e-003** | | **0.0526** | **0.0526** | | **0.0526** | **0.0526** | | **830.2054** | **830.2054** | **0.0159** | **0.0152** | **835.1389** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

No Hearths Installed

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6.3717 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | 0.0000 | 43.5353 | 43.5353 | 0.0418 | 0.0000 | 44.5800 |
| Unmitigated | 6.3717 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | 0.0000 | 43.5353 | 43.5353 | 0.0418 | 0.0000 | 44.5800 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.6667 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4.9781 | | | | | 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 | 0.7269 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | | 43.5353 | 43.5353 | 0.0418 | | 44.5800 |
| **Total** | **6.3717** | **0.2784** | **24.1671** | **1.2800e-003** | | **0.1339** | **0.1339** | | **0.1339** | **0.1339** | **0.0000** | **43.5353** | **43.5353** | **0.0418** | **0.0000** | **44.5800** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.6667 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4.9781 | | | | | 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 | 0.7269 | 0.2784 | 24.1671 | 1.2800e-003 | | 0.1339 | 0.1339 | | 0.1339 | 0.1339 | | 43.5353 | 43.5353 | 0.0418 | | 44.5800 |
| **Total** | **6.3717** | **0.2784** | **24.1671** | **1.2800e-003** | | **0.1339** | **0.1339** | | **0.1339** | **0.1339** | **0.0000** | **43.5353** | **43.5353** | **0.0418** | **0.0000** | **44.5800** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Winter

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

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## 10.0 Stationary Equipment

**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

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

# 200 Portage Avenue Air Quality Alternative 2

**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 | 7.40 | 1000sqft | 0.00 | 7,400.00 | 0 |
| Parking Lot | 36.00 | Space | 0.00 | 14,400.00 | 0 |
| Condo/Townhouse High Rise | 293.00 | Dwelling Unit | 4.58 | 224,983.00 | 838 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2024 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Residential square footage based on Alternative 2 data. Existing 7,400 sf commercial space to remain. Surface parking square footage based on CalEEMod defaults.

Construction Phase - Based on default CalEEMod construction schedule of 6 days a week.

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on applicant provided construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

Trips and VMT - Hauling trip length based on applicant provided information of 16 miles to Zanker Recycling.

Demolition - Based on applicant provided information.

Grading -

Architectural Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Vehicle Trips - Default trip gen rates.

Woodstoves - BAAQMD Regulation 6 Rule 3, No woodburning devices

Area Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

Solid Waste -

Construction Off-road Equipment Mitigation - Pursuant to Palo Alto Comprehensive Plan Polich N-5.5 and Comprehensive Plan EIR Mitigation Measure AIR-2a, comply with BAAQMD Basic Construction Mitigation Measures. All equipment will be equipped with DPFs according to applicant provided information.

Area Mitigation -

Energy Mitigation - Pursuant to Section 150.1(b)14 of the 2019 Building Energy Efficiency Standards, residential uses under three stories must install PV solar panels that generate an amount of electricity equal to expected electricity usage.

Water Mitigation - Pursuant to CalGreen 20 percent reduction in indoor water use.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 3,700.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 11,100.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 151,864.00 | 131,036.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 455,591.00 | 393,109.00 |
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 150.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 150 | 100 |
| tblAreaCoating | Area_EF_Parking | 150 | 100 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

| | | | |
|---|---|---|---|
| tblAreaCoating | Area_EF_Residential_Exterior | 150 | 100 |
| tblAreaCoating | Area_Nonresidential_Exterior | 3700 | 0 |
| tblAreaCoating | Area_Nonresidential_Interior | 11100 | 0 |
| tblAreaCoating | Area_Residential_Exterior | 151864 | 131036 |
| tblAreaCoating | Area_Residential_Interior | 455591 | 393109 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 100 | 150 |
| tblAreaMitigation | UseLowVOCPaintParkingValue | 100 | 150 |
| tblAreaMitigation | UseLowVOCPaintResidentialExteriorValue | 100 | 150 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

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

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstructionPhase | NumDays | 18.00 | 160.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 43.95 | 0.00 |
| tblFireplaces | NumberNoFireplace | 11.72 | 0.00 |
| tblFireplaces | NumberWood | 49.81 | 0.00 |
| tblLandUse | LandUseSquareFeet | 293,000.00 | 224,983.00 |
| tblLandUse | LotAcreage | 0.17 | 0.00 |
| tblLandUse | LotAcreage | 0.32 | 0.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| 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 |

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

| | | | |
|---|---|---|---|
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 5.86 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.86 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

## 2.0 Emissions Summary

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

## 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 | | | | | |
| 2022 | 0.9708 | 1.7603 | 2.1252 | 4.6900e-003 | 0.2608 | 0.0827 | 0.3435 | 0.0882 | 0.0779 | 0.1661 | 0.0000 | 419.7177 | 419.7177 | 0.0592 | 0.0128 | 425.0226 |
| 2023 | 0.5636 | 0.6208 | 0.8599 | 1.8500e-003 | 0.0722 | 0.0281 | 0.1003 | 0.0194 | 0.0265 | 0.0459 | 0.0000 | 165.6202 | 165.6202 | 0.0238 | 4.5200e-003 | 167.5624 |
| **Maximum** | **0.9708** | **1.7603** | **2.1252** | **4.6900e-003** | **0.2608** | **0.0827** | **0.3435** | **0.0882** | **0.0779** | **0.1661** | **0.0000** | **419.7177** | **419.7177** | **0.0592** | **0.0128** | **425.0226** |

### 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 | | | | | |
| 2022 | 0.9708 | 1.7603 | 2.1252 | 4.6900e-003 | 0.2182 | 0.0239 | 0.2421 | 0.0668 | 0.0223 | 0.0891 | 0.0000 | 419.7174 | 419.7174 | 0.0592 | 0.0128 | 425.0223 |
| 2023 | 0.5636 | 0.6208 | 0.8599 | 1.8500e-003 | 0.0722 | 6.5900e-003 | 0.0788 | 0.0194 | 6.0000e-003 | 0.0254 | 0.0000 | 165.6201 | 165.6201 | 0.0238 | 4.5200e-003 | 167.5623 |
| **Maximum** | **0.9708** | **1.7603** | **2.1252** | **4.6900e-003** | **0.2182** | **0.0239** | **0.2421** | **0.0668** | **0.0223** | **0.0891** | **0.0000** | **419.7174** | **419.7174** | **0.0592** | **0.0128** | **425.0223** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **12.80** | **72.51** | **27.71** | **19.93** | **72.88** | **46.01** | **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) |
|---|---|---|---|---|
| **1** | **6-1-2022** | **8-31-2022** | 0.8344 | 0.8344 |
| **2** | **9-1-2022** | **11-30-2022** | 1.3963 | 1.3963 |
| **3** | **12-1-2022** | **2-28-2023** | 1.3972 | 1.3972 |
| **4** | **3-1-2023** | **5-31-2023** | 0.3005 | 0.3005 |
| | | **Highest** | 1.3972 | 1.3972 |

## 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 | 1.0956 | 0.0251 | 2.1750 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.4100e-003 | 0.0000 | 3.6398 |
| Energy | 0.0139 | 0.1190 | 0.0531 | 7.6000e-004 | | 9.6000e-003 | 9.6000e-003 | | 9.6000e-003 | 9.6000e-003 | 0.0000 | 137.4498 | 137.4498 | 2.6300e-003 | 2.5200e-003 | 138.2666 |
| Mobile | 0.6546 | 0.7341 | 6.0689 | 0.0125 | 1.3379 | 9.2900e-003 | 1.3472 | 0.3574 | 8.6500e-003 | 0.3661 | 0.0000 | 1,170.9239 | 1,170.9239 | 0.0778 | 0.0568 | 1,189.7810 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 28.7557 | 0.0000 | 28.7557 | 1.6994 | 0.0000 | 71.2410 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 7.2195 | 0.0000 | 7.2195 | 0.0249 | 0.0157 | 12.5192 |
| **Total** | **1.7641** | **0.8782** | **8.2970** | **0.0134** | **1.3379** | **0.0309** | **1.3689** | **0.3574** | **0.0303** | **0.3877** | **35.9752** | **1,311.9282** | **1,347.9034** | **1.8081** | **0.0750** | **1,415.4477** |

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

## 2.2 Overall Operational

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.0956 | 0.0251 | 2.1750 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.4100e-003 | 0.0000 | 3.6398 |
| Energy | 0.0139 | 0.1190 | 0.0531 | 7.6000e-004 | | 9.6000e-003 | 9.6000e-003 | | 9.6000e-003 | 9.6000e-003 | 0.0000 | 137.4498 | 137.4498 | 2.6300e-003 | 2.5200e-003 | 138.2666 |
| Mobile | 0.6546 | 0.7341 | 6.0689 | 0.0125 | 1.3379 | 9.2900e-003 | 1.3472 | 0.3574 | 8.6500e-003 | 0.3661 | 0.0000 | 1,170.9239 | 1,170.9239 | 0.0778 | 0.0568 | 1,189.7810 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 28.7557 | 0.0000 | 28.7557 | 1.6994 | 0.0000 | 71.2410 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.7756 | 0.0000 | 5.7756 | 0.0199 | 0.0126 | 10.0154 |
| **Total** | **1.7641** | **0.8782** | **8.2970** | **0.0134** | **1.3379** | **0.0309** | **1.3689** | **0.3574** | **0.0303** | **0.3877** | **34.5313** | **1,311.9282** | **1,346.4595** | **1.8031** | **0.0718** | **1,412.9438** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **4.01** | **0.00** | **0.11** | **0.27** | **4.19** | **0.18** |

## 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 | 6/1/2022 | 6/6/2022 | 6 | 5 | |
| 2 | Grading | Grading | 6/8/2022 | 6/16/2022 | 6 | 8 | |
| 3 | Building Construction | Building Construction | 6/18/2022 | 3/13/2023 | 6 | 230 | |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | Paving | Paving | 5/6/2023 | 5/26/2023 | 6 | 18 | |
| 5 | Architectural Coating | Architectural Coating | 9/10/2022 | 3/15/2023 | 6 | 160 | |

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 393,109; Residential Outdoor: 131,036; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 864 (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 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 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 | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

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

**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 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 219.00 | 35.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 44.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Site Preparation - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0491 | 0.0000 | 0.0491 | 0.0253 | 0.0000 | 0.0253 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.9300e-003 | 0.0827 | 0.0492 | 1.0000e-004 | | 4.0300e-003 | 4.0300e-003 | | 3.7100e-003 | 3.7100e-003 | 0.0000 | 8.3599 | 8.3599 | 2.7000e-003 | 0.0000 | 8.4274 |
| **Total** | **7.9300e-003** | **0.0827** | **0.0492** | **1.0000e-004** | **0.0491** | **4.0300e-003** | **0.0532** | **0.0253** | **3.7100e-003** | **0.0290** | **0.0000** | **8.3599** | **8.3599** | **2.7000e-003** | **0.0000** | **8.4274** |

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

## 3.2 Site Preparation - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2000e-004 | 9.0000e-005 | 1.0800e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.2860 | 0.2860 | 1.0000e-005 | 1.0000e-005 | 0.2887 |
| **Total** | **1.2000e-004** | **9.0000e-005** | **1.0800e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.2860** | **0.2860** | **1.0000e-005** | **1.0000e-005** | **0.2887** |

### 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 | | | | | 0.0221 | 0.0000 | 0.0221 | 0.0114 | 0.0000 | 0.0114 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.9300e-003 | 0.0827 | 0.0492 | 1.0000e-004 | | 1.2000e-003 | 1.2000e-003 | | 1.1000e-003 | 1.1000e-003 | 0.0000 | 8.3598 | 8.3598 | 2.7000e-003 | 0.0000 | 8.4274 |
| **Total** | **7.9300e-003** | **0.0827** | **0.0492** | **1.0000e-004** | **0.0221** | **1.2000e-003** | **0.0233** | **0.0114** | **1.1000e-003** | **0.0125** | **0.0000** | **8.3598** | **8.3598** | **2.7000e-003** | **0.0000** | **8.4274** |

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

## 3.2 Site Preparation - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2000e-004 | 9.0000e-005 | 1.0800e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.2860 | 0.2860 | 1.0000e-005 | 1.0000e-005 | 0.2887 |
| **Total** | **1.2000e-004** | **9.0000e-005** | **1.0800e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.2860** | **0.2860** | **1.0000e-005** | **1.0000e-005** | **0.2887** |

## 3.3 Grading - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0283 | 0.0000 | 0.0283 | 0.0137 | 0.0000 | 0.0137 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.7900e-003 | 0.0834 | 0.0611 | 1.2000e-004 | | 3.7600e-003 | 3.7600e-003 | | 3.4600e-003 | 3.4600e-003 | 0.0000 | 10.4219 | 10.4219 | 3.3700e-003 | 0.0000 | 10.5062 |
| **Total** | **7.7900e-003** | **0.0834** | **0.0611** | **1.2000e-004** | **0.0283** | **3.7600e-003** | **0.0321** | **0.0137** | **3.4600e-003** | **0.0172** | **0.0000** | **10.4219** | **10.4219** | **3.3700e-003** | **0.0000** | **10.5062** |

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

## 3.3 Grading - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6000e-004 | 1.2000e-004 | 1.4300e-003 | 0.0000 | 4.7000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3813 | 0.3813 | 1.0000e-005 | 1.0000e-005 | 0.3849 |
| **Total** | **1.6000e-004** | **1.2000e-004** | **1.4300e-003** | **0.0000** | **4.7000e-004** | **0.0000** | **4.8000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.3813** | **0.3813** | **1.0000e-005** | **1.0000e-005** | **0.3849** |

### 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 | | | | | 0.0128 | 0.0000 | 0.0128 | 6.1600e-003 | 0.0000 | 6.1600e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.7900e-003 | 0.0834 | 0.0611 | 1.2000e-004 | | -0.0006 | -0.0006 | | -0.0006 | -0.0006 | 0.0000 | 10.4219 | 10.4219 | 3.3700e-003 | 0.0000 | 10.5062 |
| **Total** | **7.7900e-003** | **0.0834** | **0.0611** | **1.2000e-004** | **0.0128** | **-0.0006** | **0.0121** | **6.1600e-003** | **-0.0006** | **5.6000e-003** | **0.0000** | **10.4219** | **10.4219** | **3.3700e-003** | **0.0000** | **10.5062** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

## 3.3 Grading - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6000e-004 | 1.2000e-004 | 1.4300e-003 | 0.0000 | 4.7000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3813 | 0.3813 | 1.0000e-005 | 1.0000e-005 | 0.3849 |
| **Total** | **1.6000e-004** | **1.2000e-004** | **1.4300e-003** | **0.0000** | **4.7000e-004** | **0.0000** | **4.8000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.3813** | **0.3813** | **1.0000e-005** | **1.0000e-005** | **0.3849** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1442 | 1.3195 | 1.3827 | 2.2800e-003 | | 0.0684 | 0.0684 | | 0.0643 | 0.0643 | 0.0000 | 195.8078 | 195.8078 | 0.0469 | 0.0000 | 196.9806 |
| **Total** | **0.1442** | **1.3195** | **1.3827** | **2.2800e-003** | | **0.0684** | **0.0684** | | **0.0643** | **0.0643** | **0.0000** | **195.8078** | **195.8078** | **0.0469** | **0.0000** | **196.9806** |

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

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 6.3300e-003 | 0.1653 | 0.0481 | 6.3000e-004 | 0.0194 | 1.7000e-003 | 0.0211 | 5.6100e-003 | 1.6300e-003 | 7.2400e-003 | 0.0000 | 60.9105 | 60.9105 | 1.3200e-003 | 9.0300e-003 | 63.6350 |
| Worker | 0.0508 | 0.0366 | 0.4426 | 1.2700e-003 | 0.1462 | 7.9000e-004 | 0.1470 | 0.0389 | 7.3000e-004 | 0.0396 | 0.0000 | 117.6051 | 117.6051 | 3.6500e-003 | 3.3900e-003 | 118.7074 |
| **Total** | **0.0572** | **0.2019** | **0.4907** | **1.9000e-003** | **0.1656** | **2.4900e-003** | **0.1681** | **0.0445** | **2.3600e-003** | **0.0469** | **0.0000** | **178.5156** | **178.5156** | **4.9700e-003** | **0.0124** | **182.3424** |

### 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 | 0.1442 | 1.3195 | 1.3827 | 2.2800e-003 | | 0.0302 | 0.0302 | | 0.0288 | 0.0288 | 0.0000 | 195.8076 | 195.8076 | 0.0469 | 0.0000 | 196.9804 |
| **Total** | **0.1442** | **1.3195** | **1.3827** | **2.2800e-003** | | **0.0302** | **0.0302** | | **0.0288** | **0.0288** | **0.0000** | **195.8076** | **195.8076** | **0.0469** | **0.0000** | **196.9804** |

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

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 6.3300e-003 | 0.1653 | 0.0481 | 6.3000e-004 | 0.0194 | 1.7000e-003 | 0.0211 | 5.6100e-003 | 1.6300e-003 | 7.2400e-003 | 0.0000 | 60.9105 | 60.9105 | 1.3200e-003 | 9.0300e-003 | 63.6350 |
| Worker | 0.0508 | 0.0366 | 0.4426 | 1.2700e-003 | 0.1462 | 7.9000e-004 | 0.1470 | 0.0389 | 7.3000e-004 | 0.0396 | 0.0000 | 117.6051 | 117.6051 | 3.6500e-003 | 3.3900e-003 | 118.7074 |
| **Total** | **0.0572** | **0.2019** | **0.4907** | **1.9000e-003** | **0.1656** | **2.4900e-003** | **0.1681** | **0.0445** | **2.3600e-003** | **0.0469** | **0.0000** | **178.5156** | **178.5156** | **4.9700e-003** | **0.0124** | **182.3424** |

## 3.4 Building Construction - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0480 | 0.4387 | 0.4954 | 8.2000e-004 | | 0.0213 | 0.0213 | | 0.0201 | 0.0201 | 0.0000 | 70.7005 | 70.7005 | 0.0168 | 0.0000 | 71.1209 |
| **Total** | **0.0480** | **0.4387** | **0.4954** | **8.2000e-004** | | **0.0213** | **0.0213** | | **0.0201** | **0.0201** | **0.0000** | **70.7005** | **70.7005** | **0.0168** | **0.0000** | **71.1209** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

## 3.4 Building Construction - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 1.1400e-003 | 0.0475 | 0.0149 | 2.2000e-004 | 7.0000e-003 | 2.8000e-004 | 7.2800e-003 | 2.0300e-003 | 2.7000e-004 | 2.2900e-003 | 0.0000 | 21.0720 | 21.0720 | 4.3000e-004 | 3.1200e-003 | 22.0116 |
| Worker | 0.0171 | 0.0117 | 0.1481 | 4.5000e-004 | 0.0528 | 2.7000e-004 | 0.0531 | 0.0140 | 2.5000e-004 | 0.0143 | 0.0000 | 41.3661 | 41.3661 | 1.1900e-003 | 1.1300e-003 | 41.7340 |
| **Total** | **0.0182** | **0.0592** | **0.1630** | **6.7000e-004** | **0.0598** | **5.5000e-004** | **0.0603** | **0.0161** | **5.2000e-004** | **0.0166** | **0.0000** | **62.4380** | **62.4380** | **1.6200e-003** | **4.2500e-003** | **63.7457** |

### 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 | 0.0480 | 0.4387 | 0.4954 | 8.2000e-004 | | 9.6800e-003 | 9.6800e-003 | | 9.2400e-003 | 9.2400e-003 | 0.0000 | 70.7004 | 70.7004 | 0.0168 | 0.0000 | 71.1208 |
| **Total** | **0.0480** | **0.4387** | **0.4954** | **8.2000e-004** | | **9.6800e-003** | **9.6800e-003** | | **9.2400e-003** | **9.2400e-003** | **0.0000** | **70.7004** | **70.7004** | **0.0168** | **0.0000** | **71.1208** |

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

## 3.4 Building Construction - 2023

**Mitigated Construction 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 | 1.1400e-003 | 0.0475 | 0.0149 | 2.2000e-004 | 7.0000e-003 | 2.8000e-004 | 7.2800e-003 | 2.0300e-003 | 2.7000e-004 | 2.2900e-003 | 0.0000 | 21.0720 | 21.0720 | 4.3000e-004 | 3.1200e-003 | 22.0116 |
| Worker | 0.0171 | 0.0117 | 0.1481 | 4.5000e-004 | 0.0528 | 2.7000e-004 | 0.0531 | 0.0140 | 2.5000e-004 | 0.0143 | 0.0000 | 41.3661 | 41.3661 | 1.1900e-003 | 1.1300e-003 | 41.7340 |
| **Total** | **0.0182** | **0.0592** | **0.1630** | **6.7000e-004** | **0.0598** | **5.5000e-004** | **0.0603** | **0.0161** | **5.2000e-004** | **0.0166** | **0.0000** | **62.4380** | **62.4380** | **1.6200e-003** | **4.2500e-003** | **63.7457** |

## 3.5 Paving - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 8.2600e-003 | 0.0791 | 0.1097 | 1.7000e-004 | | 3.9200e-003 | 3.9200e-003 | | 3.6200e-003 | 3.6200e-003 | 0.0000 | 14.7407 | 14.7407 | 4.6300e-003 | 0.0000 | 14.8565 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **8.2600e-003** | **0.0791** | **0.1097** | **1.7000e-004** | | **3.9200e-003** | **3.9200e-003** | | **3.6200e-003** | **3.6200e-003** | **0.0000** | **14.7407** | **14.7407** | **4.6300e-003** | **0.0000** | **14.8565** |

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

## 3.5 Paving - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.6000e-004 | 3.2000e-004 | 3.9900e-003 | 1.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4300e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1147 | 1.1147 | 3.0000e-005 | 3.0000e-005 | 1.1247 |
| **Total** | **4.6000e-004** | **3.2000e-004** | **3.9900e-003** | **1.0000e-005** | **1.4200e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.1147** | **1.1147** | **3.0000e-005** | **3.0000e-005** | **1.1247** |

### 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 | 8.2600e-003 | 0.0791 | 0.1097 | 1.7000e-004 | | 1.6600e-003 | 1.6600e-003 | | 1.5400e-003 | 1.5400e-003 | 0.0000 | 14.7407 | 14.7407 | 4.6300e-003 | 0.0000 | 14.8565 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **8.2600e-003** | **0.0791** | **0.1097** | **1.7000e-004** | | **1.6600e-003** | **1.6600e-003** | | **1.5400e-003** | **1.5400e-003** | **0.0000** | **14.7407** | **14.7407** | **4.6300e-003** | **0.0000** | **14.8565** |

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

## 3.5 Paving - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.6000e-004 | 3.2000e-004 | 3.9900e-003 | 1.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4300e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1147 | 1.1147 | 3.0000e-005 | 3.0000e-005 | 1.1247 |
| **Total** | **4.6000e-004** | **3.2000e-004** | **3.9900e-003** | **1.0000e-005** | **1.4200e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.1147** | **1.1147** | **3.0000e-005** | **3.0000e-005** | **1.1247** |

## 3.6 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.9200e-003 | 0.0683 | 0.0880 | 1.4000e-004 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 12.3833 | 12.3833 | 8.1000e-004 | 0.0000 | 12.4034 |
| **Total** | **0.7476** | **0.0683** | **0.0880** | **1.4000e-004** | | **3.9600e-003** | **3.9600e-003** | | **3.9600e-003** | **3.9600e-003** | **0.0000** | **12.3833** | **12.3833** | **8.1000e-004** | **0.0000** | **12.4034** |

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

## 3.6 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 5.8600e-003 | 4.2200e-003 | 0.0510 | 1.5000e-004 | 0.0169 | 9.0000e-005 | 0.0170 | 4.4900e-003 | 8.0000e-005 | 4.5700e-003 | 0.0000 | 13.5619 | 13.5619 | 4.2000e-004 | 3.9000e-004 | 13.6890 |
| **Total** | **5.8600e-003** | **4.2200e-003** | **0.0510** | **1.5000e-004** | **0.0169** | **9.0000e-005** | **0.0170** | **4.4900e-003** | **8.0000e-005** | **4.5700e-003** | **0.0000** | **13.5619** | **13.5619** | **4.2000e-004** | **3.9000e-004** | **13.6890** |

### 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 | 0.7376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.9200e-003 | 0.0683 | 0.0880 | 1.4000e-004 | | -0.0095 | -0.0095 | | -0.0095 | -0.0095 | 0.0000 | 12.3833 | 12.3833 | 8.1000e-004 | 0.0000 | 12.4034 |
| **Total** | **0.7476** | **0.0683** | **0.0880** | **1.4000e-004** | | **-0.0095** | **-0.0095** | | **-0.0095** | **-0.0095** | **0.0000** | **12.3833** | **12.3833** | **8.1000e-004** | **0.0000** | **12.4034** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

## 3.6 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 5.8600e-003 | 4.2200e-003 | 0.0510 | 1.5000e-004 | 0.0169 | 9.0000e-005 | 0.0170 | 4.4900e-003 | 8.0000e-005 | 4.5700e-003 | 0.0000 | 13.5619 | 13.5619 | 4.2000e-004 | 3.9000e-004 | 13.6890 |
| **Total** | **5.8600e-003** | **4.2200e-003** | **0.0510** | **1.5000e-004** | **0.0169** | **9.0000e-005** | **0.0170** | **4.4900e-003** | **8.0000e-005** | **4.5700e-003** | **0.0000** | **13.5619** | **13.5619** | **4.2000e-004** | **3.9000e-004** | **13.6890** |

## 3.6 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.4791 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.0400e-003 | 0.0410 | 0.0571 | 9.0000e-005 | | 2.2300e-003 | 2.2300e-003 | | 2.2300e-003 | 2.2300e-003 | 0.0000 | 8.0428 | 8.0428 | 4.8000e-004 | 0.0000 | 8.0548 |
| **Total** | **0.4851** | **0.0410** | **0.0571** | **9.0000e-005** | | **2.2300e-003** | **2.2300e-003** | | **2.2300e-003** | **2.2300e-003** | **0.0000** | **8.0428** | **8.0428** | **4.8000e-004** | **0.0000** | **8.0548** |

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

## 3.6 Architectural Coating - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.5500e-003 | 2.4300e-003 | 0.0307 | 9.0000e-005 | 0.0110 | 6.0000e-005 | 0.0110 | 2.9100e-003 | 5.0000e-005 | 2.9700e-003 | 0.0000 | 8.5835 | 8.5835 | 2.5000e-004 | 2.4000e-004 | 8.6598 |
| **Total** | **3.5500e-003** | **2.4300e-003** | **0.0307** | **9.0000e-005** | **0.0110** | **6.0000e-005** | **0.0110** | **2.9100e-003** | **5.0000e-005** | **2.9700e-003** | **0.0000** | **8.5835** | **8.5835** | **2.5000e-004** | **2.4000e-004** | **8.6598** |

### 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 | 0.4791 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.0400e-003 | 0.0410 | 0.0571 | 9.0000e-005 | | -0.0054 | -0.0054 | | -0.0054 | -0.0054 | 0.0000 | 8.0427 | 8.0427 | 4.8000e-004 | 0.0000 | 8.0548 |
| **Total** | **0.4851** | **0.0410** | **0.0571** | **9.0000e-005** | | **-0.0054** | **-0.0054** | | **-0.0054** | **-0.0054** | **0.0000** | **8.0427** | **8.0427** | **4.8000e-004** | **0.0000** | **8.0548** |

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

### 3.6 Architectural Coating - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.5500e-003 | 2.4300e-003 | 0.0307 | 9.0000e-005 | 0.0110 | 6.0000e-005 | 0.0110 | 2.9100e-003 | 5.0000e-005 | 2.9700e-003 | 0.0000 | 8.5835 | 8.5835 | 2.5000e-004 | 2.4000e-004 | 8.6598 |
| **Total** | **3.5500e-003** | **2.4300e-003** | **0.0307** | **9.0000e-005** | **0.0110** | **6.0000e-005** | **0.0110** | **2.9100e-003** | **5.0000e-005** | **2.9700e-003** | **0.0000** | **8.5835** | **8.5835** | **2.5000e-004** | **2.4000e-004** | **8.6598** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.6546 | 0.7341 | 6.0689 | 0.0125 | 1.3379 | 9.2900e-003 | 1.3472 | 0.3574 | 8.6500e-003 | 0.3661 | 0.0000 | 1,170.9239 | 1,170.9239 | 0.0778 | 0.0568 | 1,189.7810 |
| Unmitigated | 0.6546 | 0.7341 | 6.0689 | 0.0125 | 1.3379 | 9.2900e-003 | 1.3472 | 0.3574 | 8.6500e-003 | 0.3661 | 0.0000 | 1,170.9239 | 1,170.9239 | 0.0778 | 0.0568 | 1,189.7810 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 1,593.92 | 1,438.63 | 1198.37 | 3,499,583 | 3,499,583 |
| General Office Building | 72.08 | 16.35 | 5.18 | 130,383 | 130,383 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 1,666.00 | 1,454.98 | 1,203.55 | 3,629,966 | 3,629,966 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Condo/Townhouse High Rise | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |
| General Office Building | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |

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

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parking Lot | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 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 | 0.0000 |
| NaturalGas Mitigated | 0.0139 | 0.1190 | 0.0531 | 7.6000e-004 | | 9.6000e-003 | 9.6000e-003 | | 9.6000e-003 | 9.6000e-003 | 0.0000 | 137.4498 | 137.4498 | 2.6300e-003 | 2.5200e-003 | 138.2666 |
| NaturalGas Unmitigated | 0.0139 | 0.1190 | 0.0531 | 7.6000e-004 | | 9.6000e-003 | 9.6000e-003 | | 9.6000e-003 | 9.6000e-003 | 0.0000 | 137.4498 | 137.4498 | 2.6300e-003 | 2.5200e-003 | 138.2666 |

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

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Condo/Townhouse High Rise | 2.45583e+006 | 0.0132 | 0.1132 | 0.0482 | 7.2000e-004 | | 9.1500e-003 | 9.1500e-003 | | 9.1500e-003 | 9.1500e-003 | 0.0000 | 131.0526 | 131.0526 | 2.5100e-003 | 2.4000e-003 | 131.8313 |
| General Office Building | 119880 | 6.5000e-004 | 5.8800e-003 | 4.9400e-003 | 4.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.5000e-004 | 4.5000e-004 | 0.0000 | 6.3973 | 6.3973 | 1.2000e-004 | 1.2000e-004 | 6.4353 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0139** | **0.1190** | **0.0531** | **7.6000e-004** | | **9.6000e-003** | **9.6000e-003** | | **9.6000e-003** | **9.6000e-003** | **0.0000** | **137.4498** | **137.4498** | **2.6300e-003** | **2.5200e-003** | **138.2666** |

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Condo/Townhouse High Rise | 2.45583e+006 | 0.0132 | 0.1132 | 0.0482 | 7.2000e-004 | | 9.1500e-003 | 9.1500e-003 | | 9.1500e-003 | 9.1500e-003 | 0.0000 | 131.0526 | 131.0526 | 2.5100e-003 | 2.4000e-003 | 131.8313 |
| General Office Building | 119880 | 6.5000e-004 | 5.8800e-003 | 4.9400e-003 | 4.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.5000e-004 | 4.5000e-004 | 0.0000 | 6.3973 | 6.3973 | 1.2000e-004 | 1.2000e-004 | 6.4353 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0139** | **0.1190** | **0.0531** | **7.6000e-004** | | **9.6000e-003** | **9.6000e-003** | | **9.6000e-003** | **9.6000e-003** | **0.0000** | **137.4498** | **137.4498** | **2.6300e-003** | **2.5200e-003** | **138.2666** |

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

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 1.20894e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 127058 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 5040 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

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

## 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 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

No Hearths Installed

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.0956 | 0.0251 | 2.1750 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.4100e-003 | 0.0000 | 3.6398 |
| Unmitigated | 1.0956 | 0.0251 | 2.1750 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.4100e-003 | 0.0000 | 3.6398 |

## 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 | 0.1217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9085 | | | | | 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 | 0.0654 | 0.0251 | 2.1750 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.4100e-003 | 0.0000 | 3.6398 |
| **Total** | **1.0956** | **0.0251** | **2.1750** | **1.1000e-004** | | **0.0121** | **0.0121** | | **0.0121** | **0.0121** | **0.0000** | **3.5545** | **3.5545** | **3.4100e-003** | **0.0000** | **3.6398** |

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9085 | | | | | 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 | 0.0654 | 0.0251 | 2.1750 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.4100e-003 | 0.0000 | 3.6398 |
| **Total** | **1.0956** | **0.0251** | **2.1750** | **1.1000e-004** | | **0.0121** | **0.0121** | | **0.0121** | **0.0121** | **0.0000** | **3.5545** | **3.5545** | **3.4100e-003** | **0.0000** | **3.6398** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 5.7756 | 0.0199 | 0.0126 | 10.0154 |
| Unmitigated | 7.2195 | 0.0249 | 0.0157 | 12.5192 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 19.0901 / 12.0351 | 6.7541 | 0.0233 | 0.0147 | 11.7123 |
| General Office Building | 1.31523 / 0.806109 | 0.4653 | 1.6000e-003 | 1.0100e-003 | 0.8069 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **7.2195** | **0.0249** | **0.0157** | **12.5193** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 15.2721 / 12.0351 | 5.4033 | 0.0186 | 0.0118 | 9.3699 |
| General Office Building | 1.05218 / 0.806109 | 0.3723 | 1.2800e-003 | 8.1000e-004 | 0.6455 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **5.7756** | **0.0199** | **0.0126** | **10.0154** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

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

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 28.7557 | 1.6994 | 0.0000 | 71.2410 |
| Unmitigated | 28.7557 | 1.6994 | 0.0000 | 71.2410 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 134.78 | 27.3591 | 1.6169 | 0.0000 | 67.7811 |
| General Office Building | 6.88 | 1.3966 | 0.0825 | 0.0000 | 3.4600 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **28.7557** | **1.6994** | **0.0000** | **71.2410** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 134.78 | 27.3591 | 1.6169 | 0.0000 | 67.7811 |
| General Office Building | 6.88 | 1.3966 | 0.0825 | 0.0000 | 3.4600 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **28.7557** | **1.6994** | **0.0000** | **71.2410** |

## 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**

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

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

## 11.0 Vegetation

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

# Existing to be Removed AQ Operational

**Bay Area AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Research & Development | 142.74 | 1000sqft | 3.28 | 142,740.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 5.64 | 1000sqft | 0.13 | 5,640.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2024 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - Operational model only

Land Use -

Construction Phase - Operational model only

Vehicle Trips - Default CalEEMod trip rates

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPercent | 2.21 | 0.00 |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

| | | | |
|---|---|---|---|
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 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 | | | | | |
| 2022 | 0.0957 | 0.9013 | 0.8236 | 1.6100e-003 | 0.0945 | 0.0433 | 0.1379 | 0.0436 | 0.0405 | 0.0841 | 0.0000 | 141.6570 | 141.6570 | 0.0318 | 2.3500e-003 | 143.1504 |
| 2023 | 0.9341 | 1.4430 | 1.6669 | 3.2600e-003 | 0.0488 | 0.0662 | 0.1150 | 0.0133 | 0.0622 | 0.0755 | 0.0000 | 287.4590 | 287.4590 | 0.0544 | 6.8500e-003 | 290.8605 |
| **Maximum** | **0.9341** | **1.4430** | **1.6669** | **3.2600e-003** | **0.0945** | **0.0662** | **0.1379** | **0.0436** | **0.0622** | **0.0841** | **0.0000** | **287.4590** | **287.4590** | **0.0544** | **6.8500e-003** | **290.8605** |

### 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 | | | | | |
| 2022 | 0.0957 | 0.9013 | 0.8236 | 1.6100e-003 | 0.0945 | 0.0433 | 0.1379 | 0.0436 | 0.0405 | 0.0841 | 0.0000 | 141.6568 | 141.6568 | 0.0318 | 2.3500e-003 | 143.1503 |
| 2023 | 0.9341 | 1.4430 | 1.6669 | 3.2600e-003 | 0.0488 | 0.0662 | 0.1150 | 0.0133 | 0.0622 | 0.0755 | 0.0000 | 287.4587 | 287.4587 | 0.0544 | 6.8500e-003 | 290.8602 |
| **Maximum** | **0.9341** | **1.4430** | **1.6669** | **3.2600e-003** | **0.0945** | **0.0662** | **0.1379** | **0.0436** | **0.0622** | **0.0841** | **0.0000** | **287.4587** | **287.4587** | **0.0544** | **6.8500e-003** | **290.8602** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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) |
|---|---|---|---|---|
| **1** | **8-30-2022** | **11-29-2022** | 0.7755 | 0.7755 |
| **2** | **11-30-2022** | **2-27-2023** | 0.5753 | 0.5753 |
| **3** | **2-28-2023** | **5-29-2023** | 0.5605 | 0.5605 |
| **4** | **5-30-2023** | **8-29-2023** | 0.5657 | 0.5657 |
| **5** | **8-30-2023** | **9-30-2023** | 0.2282 | 0.2282 |
| | | **Highest** | 0.7755 | 0.7755 |

## 2.2 Overall Operational

**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.6570 | 1.0000e-005 | 1.3600e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8200e-003 |
| Energy | 0.0203 | 0.1841 | 0.1547 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | 0.0000 | 200.4523 | 200.4523 | 3.8400e-003 | 3.6700e-003 | 201.6435 |
| Mobile | 0.5276 | 0.6065 | 5.0094 | 0.0105 | 1.1278 | 7.7600e-003 | 1.1355 | 0.3013 | 7.2300e-003 | 0.3085 | 0.0000 | 984.5034 | 984.5034 | 0.0634 | 0.0468 | 1,000.0433 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.2783 | 0.0000 | 3.2783 | 0.1937 | 0.0000 | 8.1219 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.2928 | 0.0000 | 25.2928 | 0.0871 | 0.0550 | 43.8602 |
| **Total** | **1.2049** | **0.7906** | **5.1654** | **0.0116** | **1.1278** | **0.0218** | **1.1495** | **0.3013** | **0.0212** | **0.3225** | **28.5711** | **1,184.9584** | **1,213.5295** | **0.3480** | **0.1055** | **1,253.6717** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.6570 | 1.0000e-005 | 1.3600e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8200e-003 |
| Energy | 0.0203 | 0.1841 | 0.1547 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | 0.0000 | 200.4523 | 200.4523 | 3.8400e-003 | 3.6700e-003 | 201.6435 |
| Mobile | 0.5276 | 0.6065 | 5.0094 | 0.0105 | 1.1278 | 7.7600e-003 | 1.1355 | 0.3013 | 7.2300e-003 | 0.3085 | 0.0000 | 984.5034 | 984.5034 | 0.0634 | 0.0468 | 1,000.0433 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.2783 | 0.0000 | 3.2783 | 0.1937 | 0.0000 | 8.1219 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.2928 | 0.0000 | 25.2928 | 0.0871 | 0.0550 | 43.8602 |
| **Total** | **1.2049** | **0.7906** | **5.1654** | **0.0116** | **1.1278** | **0.0218** | **1.1495** | **0.3013** | **0.0212** | **0.3225** | **28.5711** | **1,184.9584** | **1,213.5295** | **0.3480** | **0.1055** | **1,253.6717** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 8/30/2022 | 9/26/2022 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 9/27/2022 | 10/3/2022 | 5 | 5 | |
| 3 | Grading | Grading | 10/4/2022 | 10/13/2022 | 5 | 8 | |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | Building Construction | Building Construction | 10/14/2022 | 8/31/2023 | 5 | 230 | |
| 5 | Paving | Paving | 9/1/2023 | 9/26/2023 | 5 | 18 | |
| 6 | Architectural Coating | Architectural Coating | 9/27/2023 | 10/20/2023 | 5 | 18 | |

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 222,570; Non-Residential Outdoor: 74,190; 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 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| 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 | 1 | 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 | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 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 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

| | | | | | |
|---|---|---|---|---|---|
| Paving | Tractors/Loaders/Backhoes | 1 | 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 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 48.00 | 24.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 10.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Demolition - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0264 | 0.2572 | 0.2059 | 3.9000e-004 | | 0.0124 | 0.0124 | | 0.0116 | 0.0116 | 0.0000 | 33.9902 | 33.9902 | 9.5500e-003 | 0.0000 | 34.2289 |
| **Total** | **0.0264** | **0.2572** | **0.2059** | **3.9000e-004** | | **0.0124** | **0.0124** | | **0.0116** | **0.0116** | **0.0000** | **33.9902** | **33.9902** | **9.5500e-003** | **0.0000** | **34.2289** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.2 Demolition - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.1000e-004 | 3.0000e-004 | 3.5900e-003 | 1.0000e-005 | 1.1900e-003 | 1.0000e-005 | 1.1900e-003 | 3.2000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 0.9533 | 0.9533 | 3.0000e-005 | 3.0000e-005 | 0.9622 |
| **Total** | **4.1000e-004** | **3.0000e-004** | **3.5900e-003** | **1.0000e-005** | **1.1900e-003** | **1.0000e-005** | **1.1900e-003** | **3.2000e-004** | **1.0000e-005** | **3.2000e-004** | **0.0000** | **0.9533** | **0.9533** | **3.0000e-005** | **3.0000e-005** | **0.9622** |

### 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 | 0.0264 | 0.2572 | 0.2059 | 3.9000e-004 | | 0.0124 | 0.0124 | | 0.0116 | 0.0116 | 0.0000 | 33.9902 | 33.9902 | 9.5500e-003 | 0.0000 | 34.2289 |
| **Total** | **0.0264** | **0.2572** | **0.2059** | **3.9000e-004** | | **0.0124** | **0.0124** | | **0.0116** | **0.0116** | **0.0000** | **33.9902** | **33.9902** | **9.5500e-003** | **0.0000** | **34.2289** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.2 Demolition - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.1000e-004 | 3.0000e-004 | 3.5900e-003 | 1.0000e-005 | 1.1900e-003 | 1.0000e-005 | 1.1900e-003 | 3.2000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 0.9533 | 0.9533 | 3.0000e-005 | 3.0000e-005 | 0.9622 |
| **Total** | **4.1000e-004** | **3.0000e-004** | **3.5900e-003** | **1.0000e-005** | **1.1900e-003** | **1.0000e-005** | **1.1900e-003** | **3.2000e-004** | **1.0000e-005** | **3.2000e-004** | **0.0000** | **0.9533** | **0.9533** | **3.0000e-005** | **3.0000e-005** | **0.9622** |

## 3.3 Site Preparation - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0491 | 0.0000 | 0.0491 | 0.0253 | 0.0000 | 0.0253 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.9300e-003 | 0.0827 | 0.0492 | 1.0000e-004 | | 4.0300e-003 | 4.0300e-003 | | 3.7100e-003 | 3.7100e-003 | 0.0000 | 8.3599 | 8.3599 | 2.7000e-003 | 0.0000 | 8.4274 |
| **Total** | **7.9300e-003** | **0.0827** | **0.0492** | **1.0000e-004** | **0.0491** | **4.0300e-003** | **0.0532** | **0.0253** | **3.7100e-003** | **0.0290** | **0.0000** | **8.3599** | **8.3599** | **2.7000e-003** | **0.0000** | **8.4274** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.3 Site Preparation - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2000e-004 | 9.0000e-005 | 1.0800e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.2860 | 0.2860 | 1.0000e-005 | 1.0000e-005 | 0.2887 |
| **Total** | **1.2000e-004** | **9.0000e-005** | **1.0800e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.2860** | **0.2860** | **1.0000e-005** | **1.0000e-005** | **0.2887** |

### 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 | | | | | 0.0491 | 0.0000 | 0.0491 | 0.0253 | 0.0000 | 0.0253 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.9300e-003 | 0.0827 | 0.0492 | 1.0000e-004 | | 4.0300e-003 | 4.0300e-003 | | 3.7100e-003 | 3.7100e-003 | 0.0000 | 8.3598 | 8.3598 | 2.7000e-003 | 0.0000 | 8.4274 |
| **Total** | **7.9300e-003** | **0.0827** | **0.0492** | **1.0000e-004** | **0.0491** | **4.0300e-003** | **0.0532** | **0.0253** | **3.7100e-003** | **0.0290** | **0.0000** | **8.3598** | **8.3598** | **2.7000e-003** | **0.0000** | **8.4274** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.3 Site Preparation - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2000e-004 | 9.0000e-005 | 1.0800e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.2860 | 0.2860 | 1.0000e-005 | 1.0000e-005 | 0.2887 |
| **Total** | **1.2000e-004** | **9.0000e-005** | **1.0800e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.2860** | **0.2860** | **1.0000e-005** | **1.0000e-005** | **0.2887** |

## 3.4 Grading - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0283 | 0.0000 | 0.0283 | 0.0137 | 0.0000 | 0.0137 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.7900e-003 | 0.0834 | 0.0611 | 1.2000e-004 | | 3.7600e-003 | 3.7600e-003 | | 3.4600e-003 | 3.4600e-003 | 0.0000 | 10.4219 | 10.4219 | 3.3700e-003 | 0.0000 | 10.5062 |
| **Total** | **7.7900e-003** | **0.0834** | **0.0611** | **1.2000e-004** | **0.0283** | **3.7600e-003** | **0.0321** | **0.0137** | **3.4600e-003** | **0.0172** | **0.0000** | **10.4219** | **10.4219** | **3.3700e-003** | **0.0000** | **10.5062** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.4 Grading - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6000e-004 | 1.2000e-004 | 1.4300e-003 | 0.0000 | 4.7000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3813 | 0.3813 | 1.0000e-005 | 1.0000e-005 | 0.3849 |
| **Total** | **1.6000e-004** | **1.2000e-004** | **1.4300e-003** | **0.0000** | **4.7000e-004** | **0.0000** | **4.8000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.3813** | **0.3813** | **1.0000e-005** | **1.0000e-005** | **0.3849** |

### 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 | | | | | 0.0283 | 0.0000 | 0.0283 | 0.0137 | 0.0000 | 0.0137 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.7900e-003 | 0.0834 | 0.0611 | 1.2000e-004 | | 3.7600e-003 | 3.7600e-003 | | 3.4600e-003 | 3.4600e-003 | 0.0000 | 10.4219 | 10.4219 | 3.3700e-003 | 0.0000 | 10.5062 |
| **Total** | **7.7900e-003** | **0.0834** | **0.0611** | **1.2000e-004** | **0.0283** | **3.7600e-003** | **0.0321** | **0.0137** | **3.4600e-003** | **0.0172** | **0.0000** | **10.4219** | **10.4219** | **3.3700e-003** | **0.0000** | **10.5062** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.4 Grading - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6000e-004 | 1.2000e-004 | 1.4300e-003 | 0.0000 | 4.7000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3813 | 0.3813 | 1.0000e-005 | 1.0000e-005 | 0.3849 |
| **Total** | **1.6000e-004** | **1.2000e-004** | **1.4300e-003** | **0.0000** | **4.7000e-004** | **0.0000** | **4.8000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.3813** | **0.3813** | **1.0000e-005** | **1.0000e-005** | **0.3849** |

## 3.5 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0478 | 0.4372 | 0.4582 | 7.5000e-004 | | 0.0227 | 0.0227 | | 0.0213 | 0.0213 | 0.0000 | 64.8831 | 64.8831 | 0.0155 | 0.0000 | 65.2717 |
| **Total** | **0.0478** | **0.4372** | **0.4582** | **7.5000e-004** | | **0.0227** | **0.0227** | | **0.0213** | **0.0213** | **0.0000** | **64.8831** | **64.8831** | **0.0155** | **0.0000** | **65.2717** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.5 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 1.4400e-003 | 0.0376 | 0.0109 | 1.4000e-004 | 4.4100e-003 | 3.9000e-004 | 4.8000e-003 | 1.2800e-003 | 3.7000e-004 | 1.6500e-003 | 0.0000 | 13.8400 | 13.8400 | 3.0000e-004 | 2.0500e-003 | 14.4591 |
| Worker | 3.6900e-003 | 2.6600e-003 | 0.0321 | 9.0000e-005 | 0.0106 | 6.0000e-005 | 0.0107 | 2.8300e-003 | 5.0000e-005 | 2.8800e-003 | 0.0000 | 8.5413 | 8.5413 | 2.6000e-004 | 2.5000e-004 | 8.6214 |
| **Total** | **5.1300e-003** | **0.0402** | **0.0431** | **2.3000e-004** | **0.0150** | **4.5000e-004** | **0.0155** | **4.1100e-003** | **4.2000e-004** | **4.5300e-003** | **0.0000** | **22.3813** | **22.3813** | **5.6000e-004** | **2.3000e-003** | **23.0805** |

### 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 | 0.0478 | 0.4372 | 0.4582 | 7.5000e-004 | | 0.0227 | 0.0227 | | 0.0213 | 0.0213 | 0.0000 | 64.8830 | 64.8830 | 0.0155 | 0.0000 | 65.2716 |
| **Total** | **0.0478** | **0.4372** | **0.4582** | **7.5000e-004** | | **0.0227** | **0.0227** | | **0.0213** | **0.0213** | **0.0000** | **64.8830** | **64.8830** | **0.0155** | **0.0000** | **65.2716** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.5 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 1.4400e-003 | 0.0376 | 0.0109 | 1.4000e-004 | 4.4100e-003 | 3.9000e-004 | 4.8000e-003 | 1.2800e-003 | 3.7000e-004 | 1.6500e-003 | 0.0000 | 13.8400 | 13.8400 | 3.0000e-004 | 2.0500e-003 | 14.4591 |
| Worker | 3.6900e-003 | 2.6600e-003 | 0.0321 | 9.0000e-005 | 0.0106 | 6.0000e-005 | 0.0107 | 2.8300e-003 | 5.0000e-005 | 2.8800e-003 | 0.0000 | 8.5413 | 8.5413 | 2.6000e-004 | 2.5000e-004 | 8.6214 |
| **Total** | **5.1300e-003** | **0.0402** | **0.0431** | **2.3000e-004** | **0.0150** | **4.5000e-004** | **0.0155** | **4.1100e-003** | **4.2000e-004** | **4.5300e-003** | **0.0000** | **22.3813** | **22.3813** | **5.6000e-004** | **2.3000e-003** | **23.0805** |

## 3.5 Building Construction - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1368 | 1.2515 | 1.4132 | 2.3400e-003 | | 0.0609 | 0.0609 | | 0.0573 | 0.0573 | 0.0000 | 201.6701 | 201.6701 | 0.0480 | 0.0000 | 202.8695 |
| **Total** | **0.1368** | **1.2515** | **1.4132** | **2.3400e-003** | | **0.0609** | **0.0609** | | **0.0573** | **0.0573** | **0.0000** | **201.6701** | **201.6701** | **0.0480** | **0.0000** | **202.8695** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.5 Building Construction - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 2.2300e-003 | 0.0928 | 0.0290 | 4.2000e-004 | 0.0137 | 5.4000e-004 | 0.0142 | 3.9600e-003 | 5.2000e-004 | 4.4800e-003 | 0.0000 | 41.2162 | 41.2162 | 8.4000e-004 | 6.1000e-003 | 43.0541 |
| Worker | 0.0107 | 7.3200e-003 | 0.0926 | 2.8000e-004 | 0.0330 | 1.7000e-004 | 0.0332 | 8.7800e-003 | 1.6000e-004 | 8.9400e-003 | 0.0000 | 25.8619 | 25.8619 | 7.4000e-004 | 7.1000e-004 | 26.0920 |
| **Total** | **0.0129** | **0.1002** | **0.1217** | **7.0000e-004** | **0.0467** | **7.1000e-004** | **0.0474** | **0.0127** | **6.8000e-004** | **0.0134** | **0.0000** | **67.0781** | **67.0781** | **1.5800e-003** | **6.8100e-003** | **69.1461** |

### 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 | 0.1368 | 1.2515 | 1.4132 | 2.3400e-003 | | 0.0609 | 0.0609 | | 0.0573 | 0.0573 | 0.0000 | 201.6699 | 201.6699 | 0.0480 | 0.0000 | 202.8692 |
| **Total** | **0.1368** | **1.2515** | **1.4132** | **2.3400e-003** | | **0.0609** | **0.0609** | | **0.0573** | **0.0573** | **0.0000** | **201.6699** | **201.6699** | **0.0480** | **0.0000** | **202.8692** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.5 Building Construction - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 2.2300e-003 | 0.0928 | 0.0290 | 4.2000e-004 | 0.0137 | 5.4000e-004 | 0.0142 | 3.9600e-003 | 5.2000e-004 | 4.4800e-003 | 0.0000 | 41.2162 | 41.2162 | 8.4000e-004 | 6.1000e-003 | 43.0541 |
| Worker | 0.0107 | 7.3200e-003 | 0.0926 | 2.8000e-004 | 0.0330 | 1.7000e-004 | 0.0332 | 8.7800e-003 | 1.6000e-004 | 8.9400e-003 | 0.0000 | 25.8619 | 25.8619 | 7.4000e-004 | 7.1000e-004 | 26.0920 |
| **Total** | **0.0129** | **0.1002** | **0.1217** | **7.0000e-004** | **0.0467** | **7.1000e-004** | **0.0474** | **0.0127** | **6.8000e-004** | **0.0134** | **0.0000** | **67.0781** | **67.0781** | **1.5800e-003** | **6.8100e-003** | **69.1461** |

## 3.6 Paving - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 8.2600e-003 | 0.0791 | 0.1097 | 1.7000e-004 | | 3.9200e-003 | 3.9200e-003 | | 3.6200e-003 | 3.6200e-003 | 0.0000 | 14.7407 | 14.7407 | 4.6300e-003 | 0.0000 | 14.8565 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **8.2600e-003** | **0.0791** | **0.1097** | **1.7000e-004** | | **3.9200e-003** | **3.9200e-003** | | **3.6200e-003** | **3.6200e-003** | **0.0000** | **14.7407** | **14.7407** | **4.6300e-003** | **0.0000** | **14.8565** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.6 Paving - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.6000e-004 | 3.2000e-004 | 3.9900e-003 | 1.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4300e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1147 | 1.1147 | 3.0000e-005 | 3.0000e-005 | 1.1247 |
| **Total** | **4.6000e-004** | **3.2000e-004** | **3.9900e-003** | **1.0000e-005** | **1.4200e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.1147** | **1.1147** | **3.0000e-005** | **3.0000e-005** | **1.1247** |

### 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 | 8.2600e-003 | 0.0791 | 0.1097 | 1.7000e-004 | | 3.9200e-003 | 3.9200e-003 | | 3.6200e-003 | 3.6200e-003 | 0.0000 | 14.7407 | 14.7407 | 4.6300e-003 | 0.0000 | 14.8565 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **8.2600e-003** | **0.0791** | **0.1097** | **1.7000e-004** | | **3.9200e-003** | **3.9200e-003** | | **3.6200e-003** | **3.6200e-003** | **0.0000** | **14.7407** | **14.7407** | **4.6300e-003** | **0.0000** | **14.8565** |

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

## 3.6 Paving - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.6000e-004 | 3.2000e-004 | 3.9900e-003 | 1.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4300e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1147 | 1.1147 | 3.0000e-005 | 3.0000e-005 | 1.1247 |
| **Total** | **4.6000e-004** | **3.2000e-004** | **3.9900e-003** | **1.0000e-005** | **1.4200e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.1147** | **1.1147** | **3.0000e-005** | **3.0000e-005** | **1.1247** |

## 3.7 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7737 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.7200e-003 | 0.0117 | 0.0163 | 3.0000e-005 | | 6.4000e-004 | 6.4000e-004 | | 6.4000e-004 | 6.4000e-004 | 0.0000 | 2.2979 | 2.2979 | 1.4000e-004 | 0.0000 | 2.3014 |
| **Total** | **0.7754** | **0.0117** | **0.0163** | **3.0000e-005** | | **6.4000e-004** | **6.4000e-004** | | **6.4000e-004** | **6.4000e-004** | **0.0000** | **2.2979** | **2.2979** | **1.4000e-004** | **0.0000** | **2.3014** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.7 Architectural Coating - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 2.3000e-004 | 1.6000e-004 | 2.0000e-003 | 1.0000e-005 | 7.1000e-004 | 0.0000 | 7.1000e-004 | 1.9000e-004 | 0.0000 | 1.9000e-004 | 0.0000 | 0.5574 | 0.5574 | 2.0000e-005 | 2.0000e-005 | 0.5623 |
| **Total** | **2.3000e-004** | **1.6000e-004** | **2.0000e-003** | **1.0000e-005** | **7.1000e-004** | **0.0000** | **7.1000e-004** | **1.9000e-004** | **0.0000** | **1.9000e-004** | **0.0000** | **0.5574** | **0.5574** | **2.0000e-005** | **2.0000e-005** | **0.5623** |

### 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 | 0.7737 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.7200e-003 | 0.0117 | 0.0163 | 3.0000e-005 | | 6.4000e-004 | 6.4000e-004 | | 6.4000e-004 | 6.4000e-004 | 0.0000 | 2.2979 | 2.2979 | 1.4000e-004 | 0.0000 | 2.3014 |
| **Total** | **0.7754** | **0.0117** | **0.0163** | **3.0000e-005** | | **6.4000e-004** | **6.4000e-004** | | **6.4000e-004** | **6.4000e-004** | **0.0000** | **2.2979** | **2.2979** | **1.4000e-004** | **0.0000** | **2.3014** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

### 3.7 Architectural Coating - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 2.3000e-004 | 1.6000e-004 | 2.0000e-003 | 1.0000e-005 | 7.1000e-004 | 0.0000 | 7.1000e-004 | 1.9000e-004 | 0.0000 | 1.9000e-004 | 0.0000 | 0.5574 | 0.5574 | 2.0000e-005 | 2.0000e-005 | 0.5623 |
| **Total** | **2.3000e-004** | **1.6000e-004** | **2.0000e-003** | **1.0000e-005** | **7.1000e-004** | **0.0000** | **7.1000e-004** | **1.9000e-004** | **0.0000** | **1.9000e-004** | **0.0000** | **0.5574** | **0.5574** | **2.0000e-005** | **2.0000e-005** | **0.5623** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.5276 | 0.6065 | 5.0094 | 0.0105 | 1.1278 | 7.7600e-003 | 1.1355 | 0.3013 | 7.2300e-003 | 0.3085 | 0.0000 | 984.5034 | 984.5034 | 0.0634 | 0.0468 | 1,000.0433 |
| Unmitigated | 0.5276 | 0.6065 | 5.0094 | 0.0105 | 1.1278 | 7.7600e-003 | 1.1355 | 0.3013 | 7.2300e-003 | 0.3085 | 0.0000 | 984.5034 | 984.5034 | 0.0634 | 0.0468 | 1,000.0433 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Research & Development | 1,607.25 | 271.21 | 158.44 | 3,031,095 | 3,031,095 |
| Unrefrigerated Warehouse-No Rail | 9.81 | 9.81 | 9.81 | 28,651 | 28,651 |
| Total | 1,617.07 | 281.02 | 168.26 | 3,059,746 | 3,059,746 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Research & Development | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Unrefrigerated Warehouse-No | 9.50 | 7.30 | 7.30 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Research & Development | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |
| Unrefrigerated Warehouse-No Rail | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |

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

## 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 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 | 0.0000 |
| NaturalGas Mitigated | 0.0203 | 0.1841 | 0.1547 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | 0.0000 | 200.4523 | 200.4523 | 3.8400e-003 | 3.6700e-003 | 201.6435 |
| NaturalGas Unmitigated | 0.0203 | 0.1841 | 0.1547 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | 0.0000 | 200.4523 | 200.4523 | 3.8400e-003 | 3.6700e-003 | 201.6435 |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Research & Development | 3.73693e+006 | 0.0202 | 0.1832 | 0.1539 | 1.1000e-003 | | 0.0139 | 0.0139 | | 0.0139 | 0.0139 | 0.0000 | 199.4170 | 199.4170 | 3.8200e-003 | 3.6600e-003 | 200.6020 |
| Unrefrigerated Warehouse-No Rail | 19401.6 | 1.0000e-004 | 9.5000e-004 | 8.0000e-004 | 1.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 1.0353 | 1.0353 | 2.0000e-005 | 2.0000e-005 | 1.0415 |
| **Total** | | **0.0203** | **0.1841** | **0.1547** | **1.1100e-003** | | **0.0140** | **0.0140** | | **0.0140** | **0.0140** | **0.0000** | **200.4523** | **200.4523** | **3.8400e-003** | **3.6800e-003** | **201.6435** |

### 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Research & Development | 3.73693e+006 | 0.0202 | 0.1832 | 0.1539 | 1.1000e-003 | | 0.0139 | 0.0139 | | 0.0139 | 0.0139 | 0.0000 | 199.4170 | 199.4170 | 3.8200e-003 | 3.6600e-003 | 200.6020 |
| Unrefrigerated Warehouse-No Rail | 19401.6 | 1.0000e-004 | 9.5000e-004 | 8.0000e-004 | 1.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 1.0353 | 1.0353 | 2.0000e-005 | 2.0000e-005 | 1.0415 |
| **Total** | | **0.0203** | **0.1841** | **0.1547** | **1.1100e-003** | | **0.0140** | **0.0140** | | **0.0140** | **0.0140** | **0.0000** | **200.4523** | **200.4523** | **3.8400e-003** | **3.6800e-003** | **201.6435** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Research & Development | 1.15619e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 19740 | 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 | | | |
| Research & Development | 1.15619e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 19740 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 6.0 Area Detail

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive 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 | 0.6570 | 1.0000e-005 | 1.3600e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8200e-003 |
| Unmitigated | 0.6570 | 1.0000e-005 | 1.3600e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8200e-003 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0774 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5795 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.3000e-004 | 1.0000e-005 | 1.3600e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8200e-003 |
| **Total** | **0.6570** | **1.0000e-005** | **1.3600e-003** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **2.6500e-003** | **2.6500e-003** | **1.0000e-005** | **0.0000** | **2.8200e-003** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0774 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5795 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.3000e-004 | 1.0000e-005 | 1.3600e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8200e-003 |
| **Total** | **0.6570** | **1.0000e-005** | **1.3600e-003** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **2.6500e-003** | **2.6500e-003** | **1.0000e-005** | **0.0000** | **2.8200e-003** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Existing to be Removed AQ Operational - Bay Area AQMD Air District, 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 | 25.2928 | 0.0871 | 0.0550 | 43.8602 |
| Unmitigated | 25.2928 | 0.0871 | 0.0550 | 43.8602 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Research & Development | 70.1844 / 0 | 24.8314 | 0.0855 | 0.0540 | 43.0600 |
| Unrefrigerated Warehouse-No Rail | 1.30425 / 0 | 0.4615 | 1.5900e-003 | 1.0000e-003 | 0.8002 |
| **Total** | | **25.2928** | **0.0871** | **0.0550** | **43.8602** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Research & Development | 70.1844 / 0 | 24.8314 | 0.0855 | 0.0540 | 43.0600 |
| Unrefrigerated Warehouse-No Rail | 1.30425 / 0 | 0.4615 | 1.5900e-003 | 1.0000e-003 | 0.8002 |
| **Total** | | **25.2928** | **0.0871** | **0.0550** | **43.8602** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 3.2783 | 0.1937 | 0.0000 | 8.1219 |
| Unmitigated | 3.2783 | 0.1937 | 0.0000 | 8.1219 |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Research & Development | 10.85 | 2.2025 | 0.1302 | 0.0000 | 5.4565 |
| Unrefrigerated Warehouse-No Rail | 5.3 | 1.0759 | 0.0636 | 0.0000 | 2.6654 |
| **Total** | | **3.2783** | **0.1937** | **0.0000** | **8.1219** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Research & Development | 10.85 | 2.2025 | 0.1302 | 0.0000 | 5.4565 |
| Unrefrigerated Warehouse-No Rail | 5.3 | 1.0759 | 0.0636 | 0.0000 | 2.6654 |
| **Total** | | **3.2783** | **0.1937** | **0.0000** | **8.1219** |

## 9.0 Operational Offroad

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

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

## 10.0 Stationary Equipment

### Fire Pumps and Emergency Generators

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

### Boilers

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

### User Defined Equipment

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

## 11.0 Vegetation

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

# 200 Portage Avenue Air Quality Alternative 2

**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 | 7.40 | 1000sqft | 0.00 | 7,400.00 | 0 |
| Parking Lot | 36.00 | Space | 0.00 | 14,400.00 | 0 |
| Condo/Townhouse High Rise | 293.00 | Dwelling Unit | 4.58 | 224,983.00 | 838 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2030 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Residential square footage based on Alternative 2 data. Existing 7,400 sf commercial space to remain. Surface parking square footage based on CalEEMod defaults.

Construction Phase - Based on default CalEEMod construction schedule of 6 days a week.

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on applicant provided construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

Off-road Equipment - Based on default CalEEMod construction equipment.

Off-road Equipment - Based on default CalEEMod construction equipment.

Trips and VMT - Hauling trip length based on applicant provided information of 16 miles to Zanker Recycling.

Demolition - Based on applicant provided information.

Grading -

Architectural Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Vehicle Trips - Default trip gen rates.

Woodstoves - BAAQMD Regulation 6 Rule 3, No woodburning devices

Area Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

Solid Waste -

Construction Off-road Equipment Mitigation - Pursuant to Palo Alto Comprehensive Plan Polich N-5.5 and Comprehensive Plan EIR Mitigation Measure AIR-2a, comply with BAAQMD Basic Construction Mitigation Measures. All equipment will be equipped with DPFs according to applicant provided information.

Area Mitigation -

Energy Mitigation - Pursuant to Section 150.1(b)14 of the 2019 Building Energy Efficiency Standards, residential uses under three stories must install PV solar panels that generate an amount of electricity equal to expected electricity usage. Percentage solar based on townhomes

Water Mitigation - Pursuant to CalGreen 20 percent reduction in indoor water use.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 3,700.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 11,100.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 151,864.00 | 131,036.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 455,591.00 | 393,109.00 |
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 150.00 | 100.00 |
| tblAreaCoating | Area_Nonresidential_Exterior | 3700 | 0 |
| tblAreaCoating | Area_Nonresidential_Interior | 11100 | 0 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

| | | | |
|---|---|---|---|
| tblAreaCoating | Area_Residential_Exterior | 151864 | 131036 |
| tblAreaCoating | Area_Residential_Interior | 455591 | 393109 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstructionPhase | NumDays | 18.00 | 160.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 43.95 | 0.00 |
| tblFireplaces | NumberNoFireplace | 11.72 | 0.00 |
| tblFireplaces | NumberWood | 49.81 | 0.00 |
| tblLandUse | LandUseSquareFeet | 293,000.00 | 224,983.00 |
| tblLandUse | LotAcreage | 0.17 | 0.00 |
| tblLandUse | LotAcreage | 0.32 | 0.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| 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 | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 5.86 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.86 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |

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

| | | | |
|---|---|---|---|
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

## 2.0 Emissions Summary

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

## 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 | | | | | |
| 2022 | 0.9708 | 1.7603 | 2.1252 | 4.6900e-003 | 0.2608 | 0.0827 | 0.3435 | 0.0882 | 0.0779 | 0.1661 | 0.0000 | 419.7177 | 419.7177 | 0.0592 | 0.0128 | 425.0226 |
| 2023 | 0.5636 | 0.6208 | 0.8599 | 1.8500e-003 | 0.0722 | 0.0281 | 0.1003 | 0.0194 | 0.0265 | 0.0459 | 0.0000 | 165.6202 | 165.6202 | 0.0238 | 4.5200e-003 | 167.5624 |
| **Maximum** | **0.9708** | **1.7603** | **2.1252** | **4.6900e-003** | **0.2608** | **0.0827** | **0.3435** | **0.0882** | **0.0779** | **0.1661** | **0.0000** | **419.7177** | **419.7177** | **0.0592** | **0.0128** | **425.0226** |

### 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 | | | | | |
| 2022 | 0.9708 | 1.7603 | 2.1252 | 4.6900e-003 | 0.2182 | 0.0239 | 0.2421 | 0.0668 | 0.0223 | 0.0891 | 0.0000 | 419.7174 | 419.7174 | 0.0592 | 0.0128 | 425.0223 |
| 2023 | 0.5636 | 0.6208 | 0.8599 | 1.8500e-003 | 0.0722 | 6.5900e-003 | 0.0788 | 0.0194 | 6.0000e-003 | 0.0254 | 0.0000 | 165.6201 | 165.6201 | 0.0238 | 4.5200e-003 | 167.5623 |
| **Maximum** | **0.9708** | **1.7603** | **2.1252** | **4.6900e-003** | **0.2182** | **0.0239** | **0.2421** | **0.0668** | **0.0223** | **0.0891** | **0.0000** | **419.7174** | **419.7174** | **0.0592** | **0.0128** | **425.0223** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **12.80** | **72.51** | **27.71** | **19.93** | **72.88** | **46.01** | **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) |
|---|---|---|---|---|
| **1** | **6-1-2022** | **8-31-2022** | 0.8344 | 0.8344 |
| **2** | **9-1-2022** | **11-30-2022** | 1.3963 | 1.3963 |
| **3** | **12-1-2022** | **2-28-2023** | 1.3972 | 1.3972 |
| **4** | **3-1-2023** | **5-31-2023** | 0.3005 | 0.3005 |
| | | **Highest** | 1.3972 | 1.3972 |

## 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 | 1.1104 | 0.0250 | 2.1702 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.3900e-003 | 0.0000 | 3.6392 |
| Energy | 0.0139 | 0.1190 | 0.0531 | 7.6000e-004 | | 9.6000e-003 | 9.6000e-003 | | 9.6000e-003 | 9.6000e-003 | 0.0000 | 137.4498 | 137.4498 | 2.6300e-003 | 2.5200e-003 | 138.2666 |
| Mobile | 0.5271 | 0.5682 | 5.0440 | 0.0106 | 1.3382 | 7.0800e-003 | 1.3453 | 0.3576 | 6.6000e-003 | 0.3642 | 0.0000 | 1,036.0237 | 1,036.0237 | 0.0628 | 0.0476 | 1,051.7638 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 28.7557 | 0.0000 | 28.7557 | 1.6994 | 0.0000 | 71.2410 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 7.2195 | 0.0000 | 7.2195 | 0.0249 | 0.0157 | 12.5192 |
| **Total** | **1.6514** | **0.7122** | **7.2673** | **0.0115** | **1.3382** | **0.0288** | **1.3670** | **0.3576** | **0.0283** | **0.3858** | **35.9752** | **1,177.0280** | **1,213.0031** | **1.7931** | **0.0658** | **1,277.4299** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.1104 | 0.0250 | 2.1702 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.3900e-003 | 0.0000 | 3.6392 |
| Energy | 0.0139 | 0.1190 | 0.0531 | 7.6000e-004 | | 9.6000e-003 | 9.6000e-003 | | 9.6000e-003 | 9.6000e-003 | 0.0000 | 137.4498 | 137.4498 | 2.6300e-003 | 2.5200e-003 | 138.2666 |
| Mobile | 0.5271 | 0.5682 | 5.0440 | 0.0106 | 1.3382 | 7.0800e-003 | 1.3453 | 0.3576 | 6.6000e-003 | 0.3642 | 0.0000 | 1,036.0237 | 1,036.0237 | 0.0628 | 0.0476 | 1,051.7638 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 28.7557 | 0.0000 | 28.7557 | 1.6994 | 0.0000 | 71.2410 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.7756 | 0.0000 | 5.7756 | 0.0199 | 0.0126 | 10.0154 |
| **Total** | **1.6514** | **0.7122** | **7.2673** | **0.0115** | **1.3382** | **0.0288** | **1.3670** | **0.3576** | **0.0283** | **0.3858** | **34.5313** | **1,177.0280** | **1,211.5592** | **1.7881** | **0.0626** | **1,274.9261** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **4.01** | **0.00** | **0.12** | **0.28** | **4.77** | **0.20** |

## 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 | 6/1/2022 | 6/6/2022 | 6 | 5 | |
| 2 | Grading | Grading | 6/8/2022 | 6/16/2022 | 6 | 8 | |
| 3 | Building Construction | Building Construction | 6/18/2022 | 3/13/2023 | 6 | 230 | |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | Architectural Coating | Architectural Coating | 9/10/2022 | 3/15/2023 | 6 | 160 | |
| 5 | Paving | Paving | 5/6/2023 | 5/26/2023 | 6 | 18 | |

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 393,109; Residential Outdoor: 131,036; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 864 (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 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 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 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

**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 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 219.00 | 35.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 44.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Site Preparation - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0491 | 0.0000 | 0.0491 | 0.0253 | 0.0000 | 0.0253 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.9300e-003 | 0.0827 | 0.0492 | 1.0000e-004 | | 4.0300e-003 | 4.0300e-003 | | 3.7100e-003 | 3.7100e-003 | 0.0000 | 8.3599 | 8.3599 | 2.7000e-003 | 0.0000 | 8.4274 |
| **Total** | **7.9300e-003** | **0.0827** | **0.0492** | **1.0000e-004** | **0.0491** | **4.0300e-003** | **0.0532** | **0.0253** | **3.7100e-003** | **0.0290** | **0.0000** | **8.3599** | **8.3599** | **2.7000e-003** | **0.0000** | **8.4274** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

## 3.2 Site Preparation - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2000e-004 | 9.0000e-005 | 1.0800e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.2860 | 0.2860 | 1.0000e-005 | 1.0000e-005 | 0.2887 |
| **Total** | **1.2000e-004** | **9.0000e-005** | **1.0800e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.2860** | **0.2860** | **1.0000e-005** | **1.0000e-005** | **0.2887** |

### 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 | | | | | 0.0221 | 0.0000 | 0.0221 | 0.0114 | 0.0000 | 0.0114 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.9300e-003 | 0.0827 | 0.0492 | 1.0000e-004 | | 1.2000e-003 | 1.2000e-003 | | 1.1000e-003 | 1.1000e-003 | 0.0000 | 8.3598 | 8.3598 | 2.7000e-003 | 0.0000 | 8.4274 |
| **Total** | **7.9300e-003** | **0.0827** | **0.0492** | **1.0000e-004** | **0.0221** | **1.2000e-003** | **0.0233** | **0.0114** | **1.1000e-003** | **0.0125** | **0.0000** | **8.3598** | **8.3598** | **2.7000e-003** | **0.0000** | **8.4274** |

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

## 3.2 Site Preparation - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2000e-004 | 9.0000e-005 | 1.0800e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.2860 | 0.2860 | 1.0000e-005 | 1.0000e-005 | 0.2887 |
| **Total** | **1.2000e-004** | **9.0000e-005** | **1.0800e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.2860** | **0.2860** | **1.0000e-005** | **1.0000e-005** | **0.2887** |

## 3.3 Grading - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0283 | 0.0000 | 0.0283 | 0.0137 | 0.0000 | 0.0137 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.7900e-003 | 0.0834 | 0.0611 | 1.2000e-004 | | 3.7600e-003 | 3.7600e-003 | | 3.4600e-003 | 3.4600e-003 | 0.0000 | 10.4219 | 10.4219 | 3.3700e-003 | 0.0000 | 10.5062 |
| **Total** | **7.7900e-003** | **0.0834** | **0.0611** | **1.2000e-004** | **0.0283** | **3.7600e-003** | **0.0321** | **0.0137** | **3.4600e-003** | **0.0172** | **0.0000** | **10.4219** | **10.4219** | **3.3700e-003** | **0.0000** | **10.5062** |

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

## 3.3 Grading - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6000e-004 | 1.2000e-004 | 1.4300e-003 | 0.0000 | 4.7000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3813 | 0.3813 | 1.0000e-005 | 1.0000e-005 | 0.3849 |
| **Total** | **1.6000e-004** | **1.2000e-004** | **1.4300e-003** | **0.0000** | **4.7000e-004** | **0.0000** | **4.8000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.3813** | **0.3813** | **1.0000e-005** | **1.0000e-005** | **0.3849** |

### 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 | | | | | 0.0128 | 0.0000 | 0.0128 | 6.1600e-003 | 0.0000 | 6.1600e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.7900e-003 | 0.0834 | 0.0611 | 1.2000e-004 | | -0.0006 | -0.0006 | | -0.0006 | -0.0006 | 0.0000 | 10.4219 | 10.4219 | 3.3700e-003 | 0.0000 | 10.5062 |
| **Total** | **7.7900e-003** | **0.0834** | **0.0611** | **1.2000e-004** | **0.0128** | **-0.0006** | **0.0121** | **6.1600e-003** | **-0.0006** | **5.6000e-003** | **0.0000** | **10.4219** | **10.4219** | **3.3700e-003** | **0.0000** | **10.5062** |

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

## 3.3 Grading - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6000e-004 | 1.2000e-004 | 1.4300e-003 | 0.0000 | 4.7000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3813 | 0.3813 | 1.0000e-005 | 1.0000e-005 | 0.3849 |
| **Total** | **1.6000e-004** | **1.2000e-004** | **1.4300e-003** | **0.0000** | **4.7000e-004** | **0.0000** | **4.8000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.3813** | **0.3813** | **1.0000e-005** | **1.0000e-005** | **0.3849** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1442 | 1.3195 | 1.3827 | 2.2800e-003 | | 0.0684 | 0.0684 | | 0.0643 | 0.0643 | 0.0000 | 195.8078 | 195.8078 | 0.0469 | 0.0000 | 196.9806 |
| **Total** | **0.1442** | **1.3195** | **1.3827** | **2.2800e-003** | | **0.0684** | **0.0684** | | **0.0643** | **0.0643** | **0.0000** | **195.8078** | **195.8078** | **0.0469** | **0.0000** | **196.9806** |

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

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 6.3300e-003 | 0.1653 | 0.0481 | 6.3000e-004 | 0.0194 | 1.7000e-003 | 0.0211 | 5.6100e-003 | 1.6300e-003 | 7.2400e-003 | 0.0000 | 60.9105 | 60.9105 | 1.3200e-003 | 9.0300e-003 | 63.6350 |
| Worker | 0.0508 | 0.0366 | 0.4426 | 1.2700e-003 | 0.1462 | 7.9000e-004 | 0.1470 | 0.0389 | 7.3000e-004 | 0.0396 | 0.0000 | 117.6051 | 117.6051 | 3.6500e-003 | 3.3900e-003 | 118.7074 |
| **Total** | **0.0572** | **0.2019** | **0.4907** | **1.9000e-003** | **0.1656** | **2.4900e-003** | **0.1681** | **0.0445** | **2.3600e-003** | **0.0469** | **0.0000** | **178.5156** | **178.5156** | **4.9700e-003** | **0.0124** | **182.3424** |

### 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 | 0.1442 | 1.3195 | 1.3827 | 2.2800e-003 | | 0.0302 | 0.0302 | | 0.0288 | 0.0288 | 0.0000 | 195.8076 | 195.8076 | 0.0469 | 0.0000 | 196.9804 |
| **Total** | **0.1442** | **1.3195** | **1.3827** | **2.2800e-003** | | **0.0302** | **0.0302** | | **0.0288** | **0.0288** | **0.0000** | **195.8076** | **195.8076** | **0.0469** | **0.0000** | **196.9804** |

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

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 6.3300e-003 | 0.1653 | 0.0481 | 6.3000e-004 | 0.0194 | 1.7000e-003 | 0.0211 | 5.6100e-003 | 1.6300e-003 | 7.2400e-003 | 0.0000 | 60.9105 | 60.9105 | 1.3200e-003 | 9.0300e-003 | 63.6350 |
| Worker | 0.0508 | 0.0366 | 0.4426 | 1.2700e-003 | 0.1462 | 7.9000e-004 | 0.1470 | 0.0389 | 7.3000e-004 | 0.0396 | 0.0000 | 117.6051 | 117.6051 | 3.6500e-003 | 3.3900e-003 | 118.7074 |
| **Total** | **0.0572** | **0.2019** | **0.4907** | **1.9000e-003** | **0.1656** | **2.4900e-003** | **0.1681** | **0.0445** | **2.3600e-003** | **0.0469** | **0.0000** | **178.5156** | **178.5156** | **4.9700e-003** | **0.0124** | **182.3424** |

## 3.4 Building Construction - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0480 | 0.4387 | 0.4954 | 8.2000e-004 | | 0.0213 | 0.0213 | | 0.0201 | 0.0201 | 0.0000 | 70.7005 | 70.7005 | 0.0168 | 0.0000 | 71.1209 |
| **Total** | **0.0480** | **0.4387** | **0.4954** | **8.2000e-004** | | **0.0213** | **0.0213** | | **0.0201** | **0.0201** | **0.0000** | **70.7005** | **70.7005** | **0.0168** | **0.0000** | **71.1209** |

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

## 3.4 Building Construction - 2023

### Unmitigated Construction 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 | 1.1400e-003 | 0.0475 | 0.0149 | 2.2000e-004 | 7.0000e-003 | 2.8000e-004 | 7.2800e-003 | 2.0300e-003 | 2.7000e-004 | 2.2900e-003 | 0.0000 | 21.0720 | 21.0720 | 4.3000e-004 | 3.1200e-003 | 22.0116 |
| Worker | 0.0171 | 0.0117 | 0.1481 | 4.5000e-004 | 0.0528 | 2.7000e-004 | 0.0531 | 0.0140 | 2.5000e-004 | 0.0143 | 0.0000 | 41.3661 | 41.3661 | 1.1900e-003 | 1.1300e-003 | 41.7340 |
| **Total** | **0.0182** | **0.0592** | **0.1630** | **6.7000e-004** | **0.0598** | **5.5000e-004** | **0.0603** | **0.0161** | **5.2000e-004** | **0.0166** | **0.0000** | **62.4380** | **62.4380** | **1.6200e-003** | **4.2500e-003** | **63.7457** |

### 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 | 0.0480 | 0.4387 | 0.4954 | 8.2000e-004 | | 9.6800e-003 | 9.6800e-003 | | 9.2400e-003 | 9.2400e-003 | 0.0000 | 70.7004 | 70.7004 | 0.0168 | 0.0000 | 71.1208 |
| **Total** | **0.0480** | **0.4387** | **0.4954** | **8.2000e-004** | | **9.6800e-003** | **9.6800e-003** | | **9.2400e-003** | **9.2400e-003** | **0.0000** | **70.7004** | **70.7004** | **0.0168** | **0.0000** | **71.1208** |

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

## 3.4 Building Construction - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 1.1400e-003 | 0.0475 | 0.0149 | 2.2000e-004 | 7.0000e-003 | 2.8000e-004 | 7.2800e-003 | 2.0300e-003 | 2.7000e-004 | 2.2900e-003 | 0.0000 | 21.0720 | 21.0720 | 4.3000e-004 | 3.1200e-003 | 22.0116 |
| Worker | 0.0171 | 0.0117 | 0.1481 | 4.5000e-004 | 0.0528 | 2.7000e-004 | 0.0531 | 0.0140 | 2.5000e-004 | 0.0143 | 0.0000 | 41.3661 | 41.3661 | 1.1900e-003 | 1.1300e-003 | 41.7340 |
| **Total** | **0.0182** | **0.0592** | **0.1630** | **6.7000e-004** | **0.0598** | **5.5000e-004** | **0.0603** | **0.0161** | **5.2000e-004** | **0.0166** | **0.0000** | **62.4380** | **62.4380** | **1.6200e-003** | **4.2500e-003** | **63.7457** |

## 3.5 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.9200e-003 | 0.0683 | 0.0880 | 1.4000e-004 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 12.3833 | 12.3833 | 8.1000e-004 | 0.0000 | 12.4034 |
| **Total** | **0.7476** | **0.0683** | **0.0880** | **1.4000e-004** | | **3.9600e-003** | **3.9600e-003** | | **3.9600e-003** | **3.9600e-003** | **0.0000** | **12.3833** | **12.3833** | **8.1000e-004** | **0.0000** | **12.4034** |

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

## 3.5 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 5.8600e-003 | 4.2200e-003 | 0.0510 | 1.5000e-004 | 0.0169 | 9.0000e-005 | 0.0170 | 4.4900e-003 | 8.0000e-005 | 4.5700e-003 | 0.0000 | 13.5619 | 13.5619 | 4.2000e-004 | 3.9000e-004 | 13.6890 |
| **Total** | **5.8600e-003** | **4.2200e-003** | **0.0510** | **1.5000e-004** | **0.0169** | **9.0000e-005** | **0.0170** | **4.4900e-003** | **8.0000e-005** | **4.5700e-003** | **0.0000** | **13.5619** | **13.5619** | **4.2000e-004** | **3.9000e-004** | **13.6890** |

### 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 | 0.7376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.9200e-003 | 0.0683 | 0.0880 | 1.4000e-004 | | -0.0095 | -0.0095 | | -0.0095 | -0.0095 | 0.0000 | 12.3833 | 12.3833 | 8.1000e-004 | 0.0000 | 12.4034 |
| **Total** | **0.7476** | **0.0683** | **0.0880** | **1.4000e-004** | | **-0.0095** | **-0.0095** | | **-0.0095** | **-0.0095** | **0.0000** | **12.3833** | **12.3833** | **8.1000e-004** | **0.0000** | **12.4034** |

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

## 3.5 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 5.8600e-003 | 4.2200e-003 | 0.0510 | 1.5000e-004 | 0.0169 | 9.0000e-005 | 0.0170 | 4.4900e-003 | 8.0000e-005 | 4.5700e-003 | 0.0000 | 13.5619 | 13.5619 | 4.2000e-004 | 3.9000e-004 | 13.6890 |
| **Total** | **5.8600e-003** | **4.2200e-003** | **0.0510** | **1.5000e-004** | **0.0169** | **9.0000e-005** | **0.0170** | **4.4900e-003** | **8.0000e-005** | **4.5700e-003** | **0.0000** | **13.5619** | **13.5619** | **4.2000e-004** | **3.9000e-004** | **13.6890** |

## 3.5 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.4791 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.0400e-003 | 0.0410 | 0.0571 | 9.0000e-005 | | 2.2300e-003 | 2.2300e-003 | | 2.2300e-003 | 2.2300e-003 | 0.0000 | 8.0428 | 8.0428 | 4.8000e-004 | 0.0000 | 8.0548 |
| **Total** | **0.4851** | **0.0410** | **0.0571** | **9.0000e-005** | | **2.2300e-003** | **2.2300e-003** | | **2.2300e-003** | **2.2300e-003** | **0.0000** | **8.0428** | **8.0428** | **4.8000e-004** | **0.0000** | **8.0548** |

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

## 3.5 Architectural Coating - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.5500e-003 | 2.4300e-003 | 0.0307 | 9.0000e-005 | 0.0110 | 6.0000e-005 | 0.0110 | 2.9100e-003 | 5.0000e-005 | 2.9700e-003 | 0.0000 | 8.5835 | 8.5835 | 2.5000e-004 | 2.4000e-004 | 8.6598 |
| **Total** | **3.5500e-003** | **2.4300e-003** | **0.0307** | **9.0000e-005** | **0.0110** | **6.0000e-005** | **0.0110** | **2.9100e-003** | **5.0000e-005** | **2.9700e-003** | **0.0000** | **8.5835** | **8.5835** | **2.5000e-004** | **2.4000e-004** | **8.6598** |

### 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 | 0.4791 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.0400e-003 | 0.0410 | 0.0571 | 9.0000e-005 | | -0.0054 | -0.0054 | | -0.0054 | -0.0054 | 0.0000 | 8.0427 | 8.0427 | 4.8000e-004 | 0.0000 | 8.0548 |
| **Total** | **0.4851** | **0.0410** | **0.0571** | **9.0000e-005** | | **-0.0054** | **-0.0054** | | **-0.0054** | **-0.0054** | **0.0000** | **8.0427** | **8.0427** | **4.8000e-004** | **0.0000** | **8.0548** |

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

## 3.5 Architectural Coating - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.5500e-003 | 2.4300e-003 | 0.0307 | 9.0000e-005 | 0.0110 | 6.0000e-005 | 0.0110 | 2.9100e-003 | 5.0000e-005 | 2.9700e-003 | 0.0000 | 8.5835 | 8.5835 | 2.5000e-004 | 2.4000e-004 | 8.6598 |
| **Total** | **3.5500e-003** | **2.4300e-003** | **0.0307** | **9.0000e-005** | **0.0110** | **6.0000e-005** | **0.0110** | **2.9100e-003** | **5.0000e-005** | **2.9700e-003** | **0.0000** | **8.5835** | **8.5835** | **2.5000e-004** | **2.4000e-004** | **8.6598** |

## 3.6 Paving - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 8.2600e-003 | 0.0791 | 0.1097 | 1.7000e-004 | | 3.9200e-003 | 3.9200e-003 | | 3.6200e-003 | 3.6200e-003 | 0.0000 | 14.7407 | 14.7407 | 4.6300e-003 | 0.0000 | 14.8565 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **8.2600e-003** | **0.0791** | **0.1097** | **1.7000e-004** | | **3.9200e-003** | **3.9200e-003** | | **3.6200e-003** | **3.6200e-003** | **0.0000** | **14.7407** | **14.7407** | **4.6300e-003** | **0.0000** | **14.8565** |

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

## 3.6 Paving - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.6000e-004 | 3.2000e-004 | 3.9900e-003 | 1.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4300e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1147 | 1.1147 | 3.0000e-005 | 3.0000e-005 | 1.1247 |
| **Total** | **4.6000e-004** | **3.2000e-004** | **3.9900e-003** | **1.0000e-005** | **1.4200e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.1147** | **1.1147** | **3.0000e-005** | **3.0000e-005** | **1.1247** |

### 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 | 8.2600e-003 | 0.0791 | 0.1097 | 1.7000e-004 | | 1.6600e-003 | 1.6600e-003 | | 1.5400e-003 | 1.5400e-003 | 0.0000 | 14.7407 | 14.7407 | 4.6300e-003 | 0.0000 | 14.8565 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **8.2600e-003** | **0.0791** | **0.1097** | **1.7000e-004** | | **1.6600e-003** | **1.6600e-003** | | **1.5400e-003** | **1.5400e-003** | **0.0000** | **14.7407** | **14.7407** | **4.6300e-003** | **0.0000** | **14.8565** |

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

### 3.6 Paving - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.6000e-004 | 3.2000e-004 | 3.9900e-003 | 1.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4300e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1147 | 1.1147 | 3.0000e-005 | 3.0000e-005 | 1.1247 |
| **Total** | **4.6000e-004** | **3.2000e-004** | **3.9900e-003** | **1.0000e-005** | **1.4200e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.1147** | **1.1147** | **3.0000e-005** | **3.0000e-005** | **1.1247** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.5271 | 0.5682 | 5.0440 | 0.0106 | 1.3382 | 7.0800e-003 | 1.3453 | 0.3576 | 6.6000e-003 | 0.3642 | 0.0000 | 1,036.0237 | 1,036.0237 | 0.0628 | 0.0476 | 1,051.7638 |
| Unmitigated | 0.5271 | 0.5682 | 5.0440 | 0.0106 | 1.3382 | 7.0800e-003 | 1.3453 | 0.3576 | 6.6000e-003 | 0.3642 | 0.0000 | 1,036.0237 | 1,036.0237 | 0.0628 | 0.0476 | 1,051.7638 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 1,593.92 | 1,438.63 | 1198.37 | 3,499,583 | 3,499,583 |
| General Office Building | 72.08 | 16.35 | 5.18 | 130,383 | 130,383 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 1,666.00 | 1,454.98 | 1,203.55 | 3,629,966 | 3,629,966 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Condo/Townhouse High Rise | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| General Office Building | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |

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

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parking Lot | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 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 | 0.0000 |
| NaturalGas Mitigated | 0.0139 | 0.1190 | 0.0531 | 7.6000e-004 | | 9.6000e-003 | 9.6000e-003 | | 9.6000e-003 | 9.6000e-003 | 0.0000 | 137.4498 | 137.4498 | 2.6300e-003 | 2.5200e-003 | 138.2666 |
| NaturalGas Unmitigated | 0.0139 | 0.1190 | 0.0531 | 7.6000e-004 | | 9.6000e-003 | 9.6000e-003 | | 9.6000e-003 | 9.6000e-003 | 0.0000 | 137.4498 | 137.4498 | 2.6300e-003 | 2.5200e-003 | 138.2666 |

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

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Condo/Townhouse High Rise | 2.45583e+006 | 0.0132 | 0.1132 | 0.0482 | 7.2000e-004 | | 9.1500e-003 | 9.1500e-003 | | 9.1500e-003 | 9.1500e-003 | 0.0000 | 131.0526 | 131.0526 | 2.5100e-003 | 2.4000e-003 | 131.8313 |
| General Office Building | 119880 | 6.5000e-004 | 5.8800e-003 | 4.9400e-003 | 4.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.5000e-004 | 4.5000e-004 | 0.0000 | 6.3973 | 6.3973 | 1.2000e-004 | 1.2000e-004 | 6.4353 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0139** | **0.1190** | **0.0531** | **7.6000e-004** | | **9.6000e-003** | **9.6000e-003** | | **9.6000e-003** | **9.6000e-003** | **0.0000** | **137.4498** | **137.4498** | **2.6300e-003** | **2.5200e-003** | **138.2666** |

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Condo/Townhouse High Rise | 2.45583e+006 | 0.0132 | 0.1132 | 0.0482 | 7.2000e-004 | | 9.1500e-003 | 9.1500e-003 | | 9.1500e-003 | 9.1500e-003 | 0.0000 | 131.0526 | 131.0526 | 2.5100e-003 | 2.4000e-003 | 131.8313 |
| General Office Building | 119880 | 6.5000e-004 | 5.8800e-003 | 4.9400e-003 | 4.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.5000e-004 | 4.5000e-004 | 0.0000 | 6.3973 | 6.3973 | 1.2000e-004 | 1.2000e-004 | 6.4353 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0139** | **0.1190** | **0.0531** | **7.6000e-004** | | **9.6000e-003** | **9.6000e-003** | | **9.6000e-003** | **9.6000e-003** | **0.0000** | **137.4498** | **137.4498** | **2.6300e-003** | **2.5200e-003** | **138.2666** |

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

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 1.20894e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 127058 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 5040 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

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

## 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 108805 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 11435.2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 453.6 | 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

No Hearths Installed

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.1104 | 0.0250 | 2.1702 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.3900e-003 | 0.0000 | 3.6392 |
| Unmitigated | 1.1104 | 0.0250 | 2.1702 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.3900e-003 | 0.0000 | 3.6392 |

## 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 | 0.1370 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9085 | | | | | 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 | 0.0649 | 0.0250 | 2.1702 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.3900e-003 | 0.0000 | 3.6392 |
| **Total** | **1.1104** | **0.0250** | **2.1702** | **1.1000e-004** | | **0.0121** | **0.0121** | | **0.0121** | **0.0121** | **0.0000** | **3.5545** | **3.5545** | **3.3900e-003** | **0.0000** | **3.6392** |

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1370 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9085 | | | | | 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 | 0.0649 | 0.0250 | 2.1702 | 1.1000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 3.5545 | 3.5545 | 3.3900e-003 | 0.0000 | 3.6392 |
| **Total** | **1.1104** | **0.0250** | **2.1702** | **1.1000e-004** | | **0.0121** | **0.0121** | | **0.0121** | **0.0121** | **0.0000** | **3.5545** | **3.5545** | **3.3900e-003** | **0.0000** | **3.6392** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 5.7756 | 0.0199 | 0.0126 | 10.0154 |
| Unmitigated | 7.2195 | 0.0249 | 0.0157 | 12.5192 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 19.0901 / 12.0351 | 6.7541 | 0.0233 | 0.0147 | 11.7123 |
| General Office Building | 1.31523 / 0.806109 | 0.4653 | 1.6000e-003 | 1.0100e-003 | 0.8069 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **7.2195** | **0.0249** | **0.0157** | **12.5193** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 15.2721 / 12.0351 | 5.4033 | 0.0186 | 0.0118 | 9.3699 |
| General Office Building | 1.05218 / 0.806109 | 0.3723 | 1.2800e-003 | 8.1000e-004 | 0.6455 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **5.7756** | **0.0199** | **0.0126** | **10.0154** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

200 Portage Avenue Air Quality Alternative 2 - Bay Area AQMD Air District, Annual

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

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 28.7557 | 1.6994 | 0.0000 | 71.2410 |
| Unmitigated | 28.7557 | 1.6994 | 0.0000 | 71.2410 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 134.78 | 27.3591 | 1.6169 | 0.0000 | 67.7811 |
| General Office Building | 6.88 | 1.3966 | 0.0825 | 0.0000 | 3.4600 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **28.7557** | **1.6994** | **0.0000** | **71.2410** |

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

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 134.78 | 27.3591 | 1.6169 | 0.0000 | 67.7811 |
| General Office Building | 6.88 | 1.3966 | 0.0825 | 0.0000 | 3.4600 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **28.7557** | **1.6994** | **0.0000** | **71.2410** |

## 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**

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

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

## 11.0 Vegetation

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

# Existing to be Removed Alt 2 Operational

**Bay Area AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Research & Development | 142.74 | 1000sqft | 3.28 | 142,744.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 5.64 | 1000sqft | 0.13 | 5,640.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2022 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Existing buildings to remain on site not modelled. 84,000 sf of existing retail vacant so not modelled. Only modelled structures to be removed. Default commercial and industrial acreage.

Construction Phase - Existing operational model - construction not required.

Grading - Existing operational model

Vehicle Trips - Default CalEEMod trip rates

Area Coating -

Water And Wastewater - Regional Wastewater Treatment Plant 100% aerobic

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 5.00 | 0.00 |

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

| | | | |
|---|---|---|---|
| tblLandUse | LandUseSquareFeet | 142,740.00 | 142,744.00 |
| 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 | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

## 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 | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | N20 | 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) |
|---|---|---|---|---|

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

| | | | | |
|---|---|---|---|---|
| | | **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 | 0.6570 | 1.0000e-005 | 1.3700e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8300e-003 |
| Energy | 0.0203 | 0.1841 | 0.1547 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | 0.0000 | 200.4579 | 200.4579 | 3.8400e-003 | 3.6800e-003 | 201.6491 |
| Mobile | 0.5856 | 0.7309 | 5.5193 | 0.0112 | 1.1278 | 9.7100e-003 | 1.1375 | 0.3013 | 9.0800e-003 | 0.3104 | 0.0000 | 1,037.0667 | 1,037.0667 | 0.0700 | 0.0513 | 1,054.1154 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.2783 | 0.0000 | 3.2783 | 0.1937 | 0.0000 | 8.1219 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.2928 | 0.0000 | 25.2928 | 0.0871 | 0.0550 | 43.8602 |
| **Total** | **1.2629** | **0.9151** | **5.6754** | **0.0123** | **1.1278** | **0.0237** | **1.1515** | **0.3013** | **0.0231** | **0.3244** | **28.5711** | **1,237.5273** | **1,266.0984** | **0.3547** | **0.1100** | **1,307.7495** |

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.6570 | 1.0000e-005 | 1.3700e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8300e-003 |
| Energy | 0.0203 | 0.1841 | 0.1547 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | 0.0000 | 200.4579 | 200.4579 | 3.8400e-003 | 3.6800e-003 | 201.6491 |
| Mobile | 0.5856 | 0.7309 | 5.5193 | 0.0112 | 1.1278 | 9.7100e-003 | 1.1375 | 0.3013 | 9.0800e-003 | 0.3104 | 0.0000 | 1,037.0667 | 1,037.0667 | 0.0700 | 0.0513 | 1,054.1154 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.2783 | 0.0000 | 3.2783 | 0.1937 | 0.0000 | 8.1219 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.2928 | 0.0000 | 25.2928 | 0.0871 | 0.0550 | 43.8602 |
| **Total** | **1.2629** | **0.9151** | **5.6754** | **0.0123** | **1.1278** | **0.0237** | **1.1515** | **0.3013** | **0.0231** | **0.3244** | **28.5711** | **1,237.5273** | **1,266.0984** | **0.3547** | **0.1100** | **1,307.7495** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | 9/5/2022 | 9/4/2022 | 5 | 0 | |

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

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

## 3.2 Site Preparation - 2022

### Unmitigated Construction On-Site

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

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

## 3.2 Site Preparation - 2022

### 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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** |

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.5856 | 0.7309 | 5.5193 | 0.0112 | 1.1278 | 9.7100e-003 | 1.1375 | 0.3013 | 9.0800e-003 | 0.3104 | 0.0000 | 1,037.0667 | 1,037.0667 | 0.0700 | 0.0513 | 1,054.1154 |
| Unmitigated | 0.5856 | 0.7309 | 5.5193 | 0.0112 | 1.1278 | 9.7100e-003 | 1.1375 | 0.3013 | 9.0800e-003 | 0.3104 | 0.0000 | 1,037.0667 | 1,037.0667 | 0.0700 | 0.0513 | 1,054.1154 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Research & Development | 1,607.25 | 271.21 | 158.44 | 3,031,095 | 3,031,095 |
| Unrefrigerated Warehouse-No Rail | 9.81 | 9.81 | 9.81 | 28,651 | 28,651 |
| Total | 1,617.07 | 281.02 | 168.26 | 3,059,746 | 3,059,746 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Research & Development | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Unrefrigerated Warehouse-No | 9.50 | 7.30 | 7.30 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Research & Development | 0.551902 | 0.058132 | 0.189202 | 0.121798 | 0.023507 | 0.005520 | 0.010395 | 0.007494 | 0.001030 | 0.000592 | 0.026623 | 0.000817 | 0.002988 |
| Unrefrigerated Warehouse-No Rail | 0.551902 | 0.058132 | 0.189202 | 0.121798 | 0.023507 | 0.005520 | 0.010395 | 0.007494 | 0.001030 | 0.000592 | 0.026623 | 0.000817 | 0.002988 |

## 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 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 | 0.0000 |
| NaturalGas Mitigated | 0.0203 | 0.1841 | 0.1547 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | 0.0000 | 200.4579 | 200.4579 | 3.8400e-003 | 3.6800e-003 | 201.6491 |
| NaturalGas Unmitigated | 0.0203 | 0.1841 | 0.1547 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | 0.0000 | 200.4579 | 200.4579 | 3.8400e-003 | 3.6800e-003 | 201.6491 |

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Research & Development | 3.73704e+006 | 0.0202 | 0.1832 | 0.1539 | 1.1000e-003 | | 0.0139 | 0.0139 | | 0.0139 | 0.0139 | 0.0000 | 199.4226 | 199.4226 | 3.8200e-003 | 3.6600e-003 | 200.6076 |
| Unrefrigerated Warehouse-No Rail | 19401.6 | 1.0000e-004 | 9.5000e-004 | 8.0000e-004 | 1.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 1.0353 | 1.0353 | 2.0000e-005 | 2.0000e-005 | 1.0415 |
| **Total** | | **0.0203** | **0.1841** | **0.1547** | **1.1100e-003** | | **0.0140** | **0.0140** | | **0.0140** | **0.0140** | **0.0000** | **200.4579** | **200.4579** | **3.8400e-003** | **3.6800e-003** | **201.6491** |

### 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Research & Development | 3.73704e+006 | 0.0202 | 0.1832 | 0.1539 | 1.1000e-003 | | 0.0139 | 0.0139 | | 0.0139 | 0.0139 | 0.0000 | 199.4226 | 199.4226 | 3.8200e-003 | 3.6600e-003 | 200.6076 |
| Unrefrigerated Warehouse-No Rail | 19401.6 | 1.0000e-004 | 9.5000e-004 | 8.0000e-004 | 1.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 1.0353 | 1.0353 | 2.0000e-005 | 2.0000e-005 | 1.0415 |
| **Total** | | **0.0203** | **0.1841** | **0.1547** | **1.1100e-003** | | **0.0140** | **0.0140** | | **0.0140** | **0.0140** | **0.0000** | **200.4579** | **200.4579** | **3.8400e-003** | **3.6800e-003** | **201.6491** |

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Research & Development | 1.15623e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 19740 | 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 | | | |
| Research & Development | 1.15623e+006 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 19740 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 6.0 Area Detail

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive 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 | 0.6570 | 1.0000e-005 | 1.3700e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8300e-003 |
| Unmitigated | 0.6570 | 1.0000e-005 | 1.3700e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8300e-003 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0774 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5795 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.3000e-004 | 1.0000e-005 | 1.3700e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8300e-003 |
| **Total** | **0.6570** | **1.0000e-005** | **1.3700e-003** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **2.6500e-003** | **2.6500e-003** | **1.0000e-005** | **0.0000** | **2.8300e-003** |

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0774 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5795 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.3000e-004 | 1.0000e-005 | 1.3700e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6500e-003 | 2.6500e-003 | 1.0000e-005 | 0.0000 | 2.8300e-003 |
| **Total** | **0.6570** | **1.0000e-005** | **1.3700e-003** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **2.6500e-003** | **2.6500e-003** | **1.0000e-005** | **0.0000** | **2.8300e-003** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, 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 | 25.2928 | 0.0871 | 0.0550 | 43.8602 |
| Unmitigated | 25.2928 | 0.0871 | 0.0550 | 43.8602 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Research & Development | 70.1844 / 0 | 24.8314 | 0.0855 | 0.0540 | 43.0600 |
| Unrefrigerated Warehouse-No Rail | 1.30425 / 0 | 0.4615 | 1.5900e-003 | 1.0000e-003 | 0.8002 |
| **Total** | | **25.2928** | **0.0871** | **0.0550** | **43.8602** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Research & Development | 70.1844 / 0 | 24.8314 | 0.0855 | 0.0540 | 43.0600 |
| Unrefrigerated Warehouse-No Rail | 1.30425 / 0 | 0.4615 | 1.5900e-003 | 1.0000e-003 | 0.8002 |
| **Total** | | **25.2928** | **0.0871** | **0.0550** | **43.8602** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 3.2783 | 0.1937 | 0.0000 | 8.1219 |
| Unmitigated | 3.2783 | 0.1937 | 0.0000 | 8.1219 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Research & Development | 10.85 | 2.2025 | 0.1302 | 0.0000 | 5.4565 |
| Unrefrigerated Warehouse-No Rail | 5.3 | 1.0759 | 0.0636 | 0.0000 | 2.6654 |
| **Total** | | **3.2783** | **0.1937** | **0.0000** | **8.1219** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Research & Development | 10.85 | 2.2025 | 0.1302 | 0.0000 | 5.4565 |
| Unrefrigerated Warehouse-No Rail | 5.3 | 1.0759 | 0.0636 | 0.0000 | 2.6654 |
| **Total** | | **3.2783** | **0.1937** | **0.0000** | **8.1219** |

## 9.0 Operational Offroad

Existing to be Removed Alt 2 Operational - Bay Area AQMD Air District, Annual

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

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

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

## 11.0 Vegetation

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

# 200 Portage Avenue AQ Alternative 3

**Bay Area AQMD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Research & Development | 11.76 | 1000sqft | 0.00 | 11,762.00 | 0 |
| Parking Lot | 36.00 | Space | 0.00 | 14,400.00 | 0 |
| Apartments Mid Rise | 75.00 | Dwelling Unit | 0.00 | 75,000.00 | 215 |
| Condo/Townhouse High Rise | 74.00 | Dwelling Unit | 14.23 | 74,000.00 | 212 |
| Strip Mall | 2.60 | 1000sqft | 0.00 | 2,600.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2024 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Based on new R&D replaced auto (11,762sf), new retail (2,600sf), 74 townhomes, and 75 BMR units. Parking assumptions from proposed project.

Construction Phase - Based on proposed project assumptions for a construction schedule of 18 months and 6 days a week.

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Trips and VMT - Hauling trip length based on applicant provided information of 16 miles to Zanker Recycling.

Demolition - Based on Alt 3 demolition info for warehouse, vacant retail, and 3040 Park Blv building.

Grading - Based on proposed project assumptions of 2,000 cubic yards of export and 1,500 cubic yards of import.

Architectural Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Vehicle Trips - Trip gen rate reduced to match W-Trans Transportation Analysis

Woodstoves - BAAQMD Regulation 6 Rule 3, No woodburning devices

Area Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Energy Use - All-electric pursuant to the City's All-Electric Mandate and 2019 Energy Reach Code Ordinances: https://www.cityofpaloalto.org/files/assets/public/development-services/green-building-files/2020-all-electric-mandate-summary_final03.31.2020.pdf?t=58748.46

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

Construction Off-road Equipment Mitigation - Pursuant to Palo Alto Comprehensive Plan Polich N-5.5 and Comprehensive Plan EIR Mitigation Measure AIR-2a, comply with BAAQMD Basic Construction Mitigation Measures. All equipment will be equipped with DPFs according to applicant provided information.

Energy Mitigation - Pursuant to Section 150.1(b)14 of the 2019 Building Energy Efficiency Standards, residential uses under three stories must install PV solar panels that generate an amount of electricity equal to expected electricity usage. Percentage solar for townhomes

Water Mitigation - Pursuant to CalGreen 20 percent reduction in indoor water use.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 150.00 | 100.00 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstructionPhase | NumDays | 20.00 | 160.00 |
| tblConstructionPhase | NumDays | 300.00 | 170.00 |
| tblConstructionPhase | NumDays | 20.00 | 50.00 |
| tblConstructionPhase | NumDays | 30.00 | 15.00 |
| tblConstructionPhase | NumDays | 20.00 | 60.00 |
| tblConstructionPhase | NumDays | 10.00 | 5.00 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblEnergyUse | NT24E | 3,054.10 | 6,209.10 |
| tblEnergyUse | NT24E | 3,054.10 | 6,209.10 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | T24E | 70.89 | 1,602.68 |
| tblEnergyUse | T24E | 70.89 | 1,602.68 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 11.25 | 0.00 |
| tblFireplaces | NumberGas | 11.10 | 0.00 |
| tblFireplaces | NumberNoFireplace | 3.00 | 0.00 |
| tblFireplaces | NumberNoFireplace | 2.96 | 0.00 |
| tblFireplaces | NumberWood | 12.75 | 0.00 |
| tblFireplaces | NumberWood | 12.58 | 0.00 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | MCY | 0.03 | 0.03 |

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

| | | | |
|---|---|---|---|
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |

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

| | | | |
|---|---|---|---|
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblGrading | MaterialExported | 0.00 | 2,000.00 |
| tblGrading | MaterialImported | 0.00 | 1,500.00 |
| tblLandUse | LandUseSquareFeet | 11,760.00 | 11,762.00 |
| tblLandUse | LotAcreage | 0.27 | 0.00 |
| tblLandUse | LotAcreage | 0.32 | 0.00 |
| tblLandUse | LotAcreage | 1.97 | 0.00 |
| tblLandUse | LotAcreage | 1.16 | 14.23 |
| tblLandUse | LotAcreage | 0.06 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 0.05 | 0.05 |
| tblVehicleEF | HHD | 6.31 | 6.22 |
| tblVehicleEF | HHD | 0.41 | 0.41 |
| tblVehicleEF | HHD | 6.7080e-003 | 6.5970e-003 |
| tblVehicleEF | HHD | 1,044.30 | 920.46 |
| tblVehicleEF | HHD | 1,409.50 | 1,226.16 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.16 | 0.15 |
| tblVehicleEF | HHD | 0.22 | 0.19 |
| tblVehicleEF | HHD | 6.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 5.37 | 5.15 |
| tblVehicleEF | HHD | 2.68 | 2.51 |
| tblVehicleEF | HHD | 2.34 | 2.35 |
| tblVehicleEF | HHD | 2.6250e-003 | 2.1390e-003 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.04 | 0.04 |
| tblVehicleEF | HHD | 0.02 | 0.02 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 2.5120e-003 | 2.0460e-003 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 8.8720e-003 | 8.8850e-003 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 2.0000e-006 | 1.0000e-006 |
| tblVehicleEF | HHD | 1.1000e-004 | 7.1000e-005 |
| tblVehicleEF | HHD | 0.43 | 0.42 |
| tblVehicleEF | HHD | 0.03 | 0.02 |
| tblVehicleEF | HHD | 5.0000e-005 | 3.2000e-005 |
| tblVehicleEF | HHD | 9.7210e-003 | 8.5600e-003 |
| tblVehicleEF | HHD | 0.01 | 0.01 |
| tblVehicleEF | HHD | 2.0000e-006 | 1.0000e-006 |
| tblVehicleEF | HHD | 1.1000e-004 | 7.1000e-005 |
| tblVehicleEF | HHD | 0.49 | 0.48 |
| tblVehicleEF | HHD | 0.08 | 0.07 |
| tblVehicleEF | HHD | 5.0000e-005 | 3.2000e-005 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 0.05 | 0.05 |
| tblVehicleEF | HHD | 6.22 | 6.14 |
| tblVehicleEF | HHD | 0.41 | 0.41 |
| tblVehicleEF | HHD | 6.1240e-003 | 6.0260e-003 |
| tblVehicleEF | HHD | 1,032.50 | 909.37 |
| tblVehicleEF | HHD | 1,409.50 | 1,226.17 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.16 | 0.14 |
| tblVehicleEF | HHD | 0.22 | 0.19 |
| tblVehicleEF | HHD | 6.0000e-006 | 1.0000e-006 |
| tblVehicleEF | HHD | 5.14 | 4.91 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 2.58 | 2.41 |
| tblVehicleEF | HHD | 2.34 | 2.35 |
| tblVehicleEF | HHD | 2.2960e-003 | 1.8850e-003 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.04 | 0.04 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 2.1970e-003 | 1.8030e-003 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 8.8720e-003 | 8.8850e-003 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 6.0000e-006 | 3.0000e-006 |
| tblVehicleEF | HHD | 1.2000e-004 | 7.6000e-005 |
| tblVehicleEF | HHD | 0.45 | 0.44 |
| tblVehicleEF | HHD | 3.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 0.03 | 0.02 |
| tblVehicleEF | HHD | 4.9000e-005 | 3.1000e-005 |
| tblVehicleEF | HHD | 9.6110e-003 | 8.4570e-003 |
| tblVehicleEF | HHD | 0.01 | 0.01 |
| tblVehicleEF | HHD | 6.0000e-006 | 3.0000e-006 |
| tblVehicleEF | HHD | 1.2000e-004 | 7.6000e-005 |
| tblVehicleEF | HHD | 0.52 | 0.51 |
| tblVehicleEF | HHD | 3.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 0.08 | 0.07 |
| tblVehicleEF | HHD | 4.9000e-005 | 3.1000e-005 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 0.05 | 0.05 |
| tblVehicleEF | HHD | 6.43 | 6.34 |
| tblVehicleEF | HHD | 0.41 | 0.41 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 7.2200e-003 | 7.0940e-003 |
| tblVehicleEF | HHD | 1,060.60 | 935.76 |
| tblVehicleEF | HHD | 1,409.50 | 1,226.16 |
| tblVehicleEF | HHD | 0.07 | 0.06 |
| tblVehicleEF | HHD | 0.17 | 0.15 |
| tblVehicleEF | HHD | 0.22 | 0.19 |
| tblVehicleEF | HHD | 7.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 5.70 | 5.48 |
| tblVehicleEF | HHD | 2.72 | 2.55 |
| tblVehicleEF | HHD | 2.34 | 2.35 |
| tblVehicleEF | HHD | 3.0800e-003 | 2.4890e-003 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.04 | 0.04 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 2.9470e-003 | 2.3820e-003 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 8.8720e-003 | 8.8850e-003 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 1.1900e-004 | 7.4000e-005 |
| tblVehicleEF | HHD | 0.39 | 0.38 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 0.03 | 0.02 |
| tblVehicleEF | HHD | 5.5000e-005 | 3.6000e-005 |
| tblVehicleEF | HHD | 9.8740e-003 | 8.7030e-003 |
| tblVehicleEF | HHD | 0.01 | 0.01 |
| tblVehicleEF | HHD | 1.1900e-004 | 7.4000e-005 |
| tblVehicleEF | HHD | 0.45 | 0.44 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 0.08 | 0.07 |
| tblVehicleEF | HHD | 5.5000e-005 | 3.6000e-005 |
| tblVehicleEF | LDA | 1.8030e-003 | 9.9700e-004 |
| tblVehicleEF | LDA | 0.05 | 0.03 |
| tblVehicleEF | LDA | 0.53 | 0.41 |
| tblVehicleEF | LDA | 2.14 | 1.75 |
| tblVehicleEF | LDA | 243.15 | 216.43 |
| tblVehicleEF | LDA | 51.36 | 45.51 |
| tblVehicleEF | LDA | 4.0780e-003 | 3.2370e-003 |
| tblVehicleEF | LDA | 0.02 | 0.02 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.17 | 0.13 |
| tblVehicleEF | LDA | 1.3590e-003 | 9.5700e-004 |
| tblVehicleEF | LDA | 1.7100e-003 | 1.3050e-003 |
| tblVehicleEF | LDA | 1.2520e-003 | 8.8100e-004 |
| tblVehicleEF | LDA | 1.5720e-003 | 1.2000e-003 |
| tblVehicleEF | LDA | 0.04 | 0.02 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 6.8130e-003 | 3.4110e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.20 | 0.12 |
| tblVehicleEF | LDA | 2.3570e-003 | 2.0020e-003 |
| tblVehicleEF | LDA | 4.9800e-004 | 4.2100e-004 |
| tblVehicleEF | LDA | 0.04 | 0.02 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 9.8980e-003 | 4.9540e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDA | 0.22 | 0.14 |
| tblVehicleEF | LDA | 2.0410e-003 | 1.1320e-003 |
| tblVehicleEF | LDA | 0.04 | 0.03 |
| tblVehicleEF | LDA | 0.62 | 0.48 |
| tblVehicleEF | LDA | 1.67 | 1.37 |
| tblVehicleEF | LDA | 261.90 | 233.11 |
| tblVehicleEF | LDA | 50.46 | 44.78 |
| tblVehicleEF | LDA | 3.8010e-003 | 3.0210e-003 |
| tblVehicleEF | LDA | 0.02 | 0.02 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.15 | 0.11 |
| tblVehicleEF | LDA | 1.3590e-003 | 9.5700e-004 |
| tblVehicleEF | LDA | 1.7100e-003 | 1.3050e-003 |
| tblVehicleEF | LDA | 1.2520e-003 | 8.8100e-004 |
| tblVehicleEF | LDA | 1.5720e-003 | 1.2000e-003 |
| tblVehicleEF | LDA | 0.08 | 0.06 |
| tblVehicleEF | LDA | 0.10 | 0.07 |
| tblVehicleEF | LDA | 0.07 | 0.05 |
| tblVehicleEF | LDA | 7.5810e-003 | 3.7980e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.17 | 0.10 |
| tblVehicleEF | LDA | 2.5390e-003 | 2.1560e-003 |
| tblVehicleEF | LDA | 4.8900e-004 | 4.1400e-004 |
| tblVehicleEF | LDA | 0.08 | 0.06 |
| tblVehicleEF | LDA | 0.10 | 0.07 |
| tblVehicleEF | LDA | 0.07 | 0.05 |
| tblVehicleEF | LDA | 0.01 | 5.5180e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.18 | 0.11 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDA | 1.7350e-003 | 9.5900e-004 |
| tblVehicleEF | LDA | 0.05 | 0.03 |
| tblVehicleEF | LDA | 0.52 | 0.40 |
| tblVehicleEF | LDA | 2.51 | 2.05 |
| tblVehicleEF | LDA | 240.83 | 214.36 |
| tblVehicleEF | LDA | 52.04 | 46.06 |
| tblVehicleEF | LDA | 4.3320e-003 | 3.4360e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.19 | 0.14 |
| tblVehicleEF | LDA | 1.3590e-003 | 9.5700e-004 |
| tblVehicleEF | LDA | 1.7100e-003 | 1.3050e-003 |
| tblVehicleEF | LDA | 1.2520e-003 | 8.8100e-004 |
| tblVehicleEF | LDA | 1.5720e-003 | 1.2000e-003 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 6.6420e-003 | 3.3230e-003 |
| tblVehicleEF | LDA | 0.03 | 0.03 |
| tblVehicleEF | LDA | 0.23 | 0.14 |
| tblVehicleEF | LDA | 2.3340e-003 | 1.9830e-003 |
| tblVehicleEF | LDA | 5.0500e-004 | 4.2600e-004 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 9.6480e-003 | 4.8250e-003 |
| tblVehicleEF | LDA | 0.03 | 0.03 |
| tblVehicleEF | LDA | 0.25 | 0.15 |
| tblVehicleEF | LDT1 | 3.5970e-003 | 1.6590e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT1 | 0.06 | 0.04 |
| tblVehicleEF | LDT1 | 0.83 | 0.53 |
| tblVehicleEF | LDT1 | 2.33 | 1.89 |
| tblVehicleEF | LDT1 | 290.85 | 261.54 |
| tblVehicleEF | LDT1 | 62.04 | 55.47 |
| tblVehicleEF | LDT1 | 5.8260e-003 | 3.7700e-003 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.07 | 0.03 |
| tblVehicleEF | LDT1 | 0.22 | 0.16 |
| tblVehicleEF | LDT1 | 1.6800e-003 | 1.0980e-003 |
| tblVehicleEF | LDT1 | 2.1590e-003 | 1.5030e-003 |
| tblVehicleEF | LDT1 | 1.5460e-003 | 1.0100e-003 |
| tblVehicleEF | LDT1 | 1.9850e-003 | 1.3820e-003 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.15 | 0.10 |
| tblVehicleEF | LDT1 | 0.06 | 0.04 |
| tblVehicleEF | LDT1 | 0.02 | 6.4330e-003 |
| tblVehicleEF | LDT1 | 0.08 | 0.06 |
| tblVehicleEF | LDT1 | 0.29 | 0.16 |
| tblVehicleEF | LDT1 | 2.8200e-003 | 2.4180e-003 |
| tblVehicleEF | LDT1 | 6.0100e-004 | 5.1300e-004 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.15 | 0.10 |
| tblVehicleEF | LDT1 | 0.06 | 0.04 |
| tblVehicleEF | LDT1 | 0.02 | 9.3860e-003 |
| tblVehicleEF | LDT1 | 0.08 | 0.06 |
| tblVehicleEF | LDT1 | 0.32 | 0.18 |
| tblVehicleEF | LDT1 | 4.0330e-003 | 1.8690e-003 |
| tblVehicleEF | LDT1 | 0.05 | 0.03 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT1 | 0.97 | 0.62 |
| tblVehicleEF | LDT1 | 1.80 | 1.47 |
| tblVehicleEF | LDT1 | 310.00 | 278.57 |
| tblVehicleEF | LDT1 | 61.02 | 54.67 |
| tblVehicleEF | LDT1 | 5.3700e-003 | 3.4810e-003 |
| tblVehicleEF | LDT1 | 0.02 | 0.02 |
| tblVehicleEF | LDT1 | 0.06 | 0.03 |
| tblVehicleEF | LDT1 | 0.20 | 0.14 |
| tblVehicleEF | LDT1 | 1.6800e-003 | 1.0980e-003 |
| tblVehicleEF | LDT1 | 2.1590e-003 | 1.5030e-003 |
| tblVehicleEF | LDT1 | 1.5460e-003 | 1.0100e-003 |
| tblVehicleEF | LDT1 | 1.9850e-003 | 1.3820e-003 |
| tblVehicleEF | LDT1 | 0.18 | 0.11 |
| tblVehicleEF | LDT1 | 0.17 | 0.11 |
| tblVehicleEF | LDT1 | 0.13 | 0.09 |
| tblVehicleEF | LDT1 | 0.02 | 7.1380e-003 |
| tblVehicleEF | LDT1 | 0.07 | 0.05 |
| tblVehicleEF | LDT1 | 0.24 | 0.13 |
| tblVehicleEF | LDT1 | 3.0050e-003 | 2.5760e-003 |
| tblVehicleEF | LDT1 | 5.9200e-004 | 5.0600e-004 |
| tblVehicleEF | LDT1 | 0.18 | 0.11 |
| tblVehicleEF | LDT1 | 0.17 | 0.11 |
| tblVehicleEF | LDT1 | 0.13 | 0.09 |
| tblVehicleEF | LDT1 | 0.02 | 0.01 |
| tblVehicleEF | LDT1 | 0.07 | 0.05 |
| tblVehicleEF | LDT1 | 0.26 | 0.15 |
| tblVehicleEF | LDT1 | 3.4780e-003 | 1.5990e-003 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.83 | 0.52 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT1 | 2.72 | 2.21 |
| tblVehicleEF | LDT1 | 288.56 | 259.51 |
| tblVehicleEF | LDT1 | 62.81 | 56.08 |
| tblVehicleEF | LDT1 | 6.2230e-003 | 4.0260e-003 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.24 | 0.17 |
| tblVehicleEF | LDT1 | 1.6800e-003 | 1.0980e-003 |
| tblVehicleEF | LDT1 | 2.1590e-003 | 1.5030e-003 |
| tblVehicleEF | LDT1 | 1.5460e-003 | 1.0100e-003 |
| tblVehicleEF | LDT1 | 1.9850e-003 | 1.3820e-003 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.16 | 0.10 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.01 | 6.2720e-003 |
| tblVehicleEF | LDT1 | 0.10 | 0.07 |
| tblVehicleEF | LDT1 | 0.33 | 0.18 |
| tblVehicleEF | LDT1 | 2.7980e-003 | 2.4000e-003 |
| tblVehicleEF | LDT1 | 6.0900e-004 | 5.1900e-004 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.16 | 0.10 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.02 | 9.1510e-003 |
| tblVehicleEF | LDT1 | 0.10 | 0.07 |
| tblVehicleEF | LDT1 | 0.36 | 0.20 |
| tblVehicleEF | LDT2 | 2.8370e-003 | 1.6620e-003 |
| tblVehicleEF | LDT2 | 0.06 | 0.04 |
| tblVehicleEF | LDT2 | 0.70 | 0.54 |
| tblVehicleEF | LDT2 | 2.73 | 2.32 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT2 | 309.94 | 268.87 |
| tblVehicleEF | LDT2 | 66.52 | 57.46 |
| tblVehicleEF | LDT2 | 5.5470e-003 | 3.9670e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.06 | 0.03 |
| tblVehicleEF | LDT2 | 0.25 | 0.17 |
| tblVehicleEF | LDT2 | 1.3900e-003 | 1.0510e-003 |
| tblVehicleEF | LDT2 | 1.7260e-003 | 1.3650e-003 |
| tblVehicleEF | LDT2 | 1.2790e-003 | 9.6800e-004 |
| tblVehicleEF | LDT2 | 1.5870e-003 | 1.2550e-003 |
| tblVehicleEF | LDT2 | 0.05 | 0.04 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.01 | 6.2280e-003 |
| tblVehicleEF | LDT2 | 0.06 | 0.05 |
| tblVehicleEF | LDT2 | 0.29 | 0.18 |
| tblVehicleEF | LDT2 | 3.0040e-003 | 2.4870e-003 |
| tblVehicleEF | LDT2 | 6.4500e-004 | 5.3100e-004 |
| tblVehicleEF | LDT2 | 0.05 | 0.04 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.02 | 9.0460e-003 |
| tblVehicleEF | LDT2 | 0.06 | 0.05 |
| tblVehicleEF | LDT2 | 0.31 | 0.20 |
| tblVehicleEF | LDT2 | 3.1980e-003 | 1.8780e-003 |
| tblVehicleEF | LDT2 | 0.05 | 0.04 |
| tblVehicleEF | LDT2 | 0.83 | 0.63 |
| tblVehicleEF | LDT2 | 2.12 | 1.80 |
| tblVehicleEF | LDT2 | 328.46 | 284.72 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT2 | 65.35 | 56.49 |
| tblVehicleEF | LDT2 | 5.1490e-003 | 3.6920e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.05 | 0.03 |
| tblVehicleEF | LDT2 | 0.22 | 0.15 |
| tblVehicleEF | LDT2 | 1.3900e-003 | 1.0510e-003 |
| tblVehicleEF | LDT2 | 1.7260e-003 | 1.3650e-003 |
| tblVehicleEF | LDT2 | 1.2790e-003 | 9.6800e-004 |
| tblVehicleEF | LDT2 | 1.5870e-003 | 1.2550e-003 |
| tblVehicleEF | LDT2 | 0.13 | 0.10 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.01 | 6.9100e-003 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.23 | 0.15 |
| tblVehicleEF | LDT2 | 3.1840e-003 | 2.6330e-003 |
| tblVehicleEF | LDT2 | 6.3400e-004 | 5.2200e-004 |
| tblVehicleEF | LDT2 | 0.13 | 0.10 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.02 | 0.01 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.26 | 0.17 |
| tblVehicleEF | LDT2 | 2.7360e-003 | 1.6010e-003 |
| tblVehicleEF | LDT2 | 0.07 | 0.05 |
| tblVehicleEF | LDT2 | 0.70 | 0.53 |
| tblVehicleEF | LDT2 | 3.20 | 2.71 |
| tblVehicleEF | LDT2 | 307.71 | 266.97 |
| tblVehicleEF | LDT2 | 67.39 | 58.20 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT2 | 5.9000e-003 | 4.2130e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.06 | 0.04 |
| tblVehicleEF | LDT2 | 0.27 | 0.18 |
| tblVehicleEF | LDT2 | 1.3900e-003 | 1.0510e-003 |
| tblVehicleEF | LDT2 | 1.7260e-003 | 1.3650e-003 |
| tblVehicleEF | LDT2 | 1.2790e-003 | 9.6800e-004 |
| tblVehicleEF | LDT2 | 1.5870e-003 | 1.2550e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.01 | 6.0730e-003 |
| tblVehicleEF | LDT2 | 0.07 | 0.06 |
| tblVehicleEF | LDT2 | 0.32 | 0.21 |
| tblVehicleEF | LDT2 | 2.9830e-003 | 2.4690e-003 |
| tblVehicleEF | LDT2 | 6.5300e-004 | 5.3800e-004 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.02 | 8.8200e-003 |
| tblVehicleEF | LDT2 | 0.07 | 0.06 |
| tblVehicleEF | LDT2 | 0.35 | 0.23 |
| tblVehicleEF | LHD1 | 4.9130e-003 | 4.1460e-003 |
| tblVehicleEF | LHD1 | 8.2090e-003 | 5.4760e-003 |
| tblVehicleEF | LHD1 | 0.01 | 9.1240e-003 |
| tblVehicleEF | LHD1 | 0.18 | 0.18 |
| tblVehicleEF | LHD1 | 0.75 | 0.50 |
| tblVehicleEF | LHD1 | 1.03 | 0.89 |
| tblVehicleEF | LHD1 | 8.95 | 8.34 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 779.84 | 702.21 |
| tblVehicleEF | LHD1 | 11.30 | 10.04 |
| tblVehicleEF | LHD1 | 7.7200e-004 | 7.4600e-004 |
| tblVehicleEF | LHD1 | 0.04 | 0.04 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 0.06 | 0.05 |
| tblVehicleEF | LHD1 | 0.77 | 0.37 |
| tblVehicleEF | LHD1 | 0.30 | 0.23 |
| tblVehicleEF | LHD1 | 8.7600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 9.8210e-003 | 9.9180e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.8050e-003 |
| tblVehicleEF | LHD1 | 2.4300e-004 | 2.1000e-004 |
| tblVehicleEF | LHD1 | 8.3800e-004 | 8.8900e-004 |
| tblVehicleEF | LHD1 | 2.4550e-003 | 2.4790e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.4230e-003 |
| tblVehicleEF | LHD1 | 2.2300e-004 | 1.9300e-004 |
| tblVehicleEF | LHD1 | 1.7240e-003 | 1.3190e-003 |
| tblVehicleEF | LHD1 | 0.07 | 0.06 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 9.5300e-004 | 7.7900e-004 |
| tblVehicleEF | LHD1 | 0.09 | 0.08 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.07 | 0.04 |
| tblVehicleEF | LHD1 | 8.7000e-005 | 8.1000e-005 |
| tblVehicleEF | LHD1 | 7.6100e-003 | 6.8460e-003 |
| tblVehicleEF | LHD1 | 1.1200e-004 | 9.9000e-005 |
| tblVehicleEF | LHD1 | 1.7240e-003 | 1.3190e-003 |
| tblVehicleEF | LHD1 | 0.07 | 0.06 |
| tblVehicleEF | LHD1 | 0.03 | 0.02 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 9.5300e-004 | 7.7900e-004 |
| tblVehicleEF | LHD1 | 0.12 | 0.09 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.07 | 0.05 |
| tblVehicleEF | LHD1 | 4.9280e-003 | 4.1590e-003 |
| tblVehicleEF | LHD1 | 8.4050e-003 | 5.5600e-003 |
| tblVehicleEF | LHD1 | 0.01 | 8.5890e-003 |
| tblVehicleEF | LHD1 | 0.18 | 0.18 |
| tblVehicleEF | LHD1 | 0.77 | 0.51 |
| tblVehicleEF | LHD1 | 0.95 | 0.83 |
| tblVehicleEF | LHD1 | 8.95 | 8.34 |
| tblVehicleEF | LHD1 | 779.87 | 702.22 |
| tblVehicleEF | LHD1 | 11.16 | 9.92 |
| tblVehicleEF | LHD1 | 7.7600e-004 | 7.4900e-004 |
| tblVehicleEF | LHD1 | 0.04 | 0.04 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 0.06 | 0.05 |
| tblVehicleEF | LHD1 | 0.74 | 0.35 |
| tblVehicleEF | LHD1 | 0.28 | 0.21 |
| tblVehicleEF | LHD1 | 8.7600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 9.8210e-003 | 9.9180e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.8050e-003 |
| tblVehicleEF | LHD1 | 2.4300e-004 | 2.1000e-004 |
| tblVehicleEF | LHD1 | 8.3800e-004 | 8.8900e-004 |
| tblVehicleEF | LHD1 | 2.4550e-003 | 2.4790e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.4230e-003 |
| tblVehicleEF | LHD1 | 2.2300e-004 | 1.9300e-004 |
| tblVehicleEF | LHD1 | 4.0880e-003 | 3.0750e-003 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 2.0160e-003 | 1.6020e-003 |
| tblVehicleEF | LHD1 | 0.10 | 0.08 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.06 | 0.04 |
| tblVehicleEF | LHD1 | 8.7000e-005 | 8.1000e-005 |
| tblVehicleEF | LHD1 | 7.6100e-003 | 6.8460e-003 |
| tblVehicleEF | LHD1 | 1.1000e-004 | 9.8000e-005 |
| tblVehicleEF | LHD1 | 4.0880e-003 | 3.0750e-003 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |
| tblVehicleEF | LHD1 | 0.03 | 0.02 |
| tblVehicleEF | LHD1 | 2.0160e-003 | 1.6020e-003 |
| tblVehicleEF | LHD1 | 0.12 | 0.09 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.07 | 0.05 |
| tblVehicleEF | LHD1 | 4.9010e-003 | 4.1360e-003 |
| tblVehicleEF | LHD1 | 8.0620e-003 | 5.4110e-003 |
| tblVehicleEF | LHD1 | 0.01 | 9.5570e-003 |
| tblVehicleEF | LHD1 | 0.18 | 0.18 |
| tblVehicleEF | LHD1 | 0.74 | 0.50 |
| tblVehicleEF | LHD1 | 1.10 | 0.95 |
| tblVehicleEF | LHD1 | 8.95 | 8.34 |
| tblVehicleEF | LHD1 | 779.81 | 702.20 |
| tblVehicleEF | LHD1 | 11.43 | 10.14 |
| tblVehicleEF | LHD1 | 7.7000e-004 | 7.4400e-004 |
| tblVehicleEF | LHD1 | 0.05 | 0.04 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 0.06 | 0.05 |
| tblVehicleEF | LHD1 | 0.79 | 0.38 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 0.32 | 0.24 |
| tblVehicleEF | LHD1 | 8.7600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 9.8210e-003 | 9.9180e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.8050e-003 |
| tblVehicleEF | LHD1 | 2.4300e-004 | 2.1000e-004 |
| tblVehicleEF | LHD1 | 8.3800e-004 | 8.8900e-004 |
| tblVehicleEF | LHD1 | 2.4550e-003 | 2.4790e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.4230e-003 |
| tblVehicleEF | LHD1 | 2.2300e-004 | 1.9300e-004 |
| tblVehicleEF | LHD1 | 7.6200e-004 | 6.1800e-004 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 4.5100e-004 | 3.8000e-004 |
| tblVehicleEF | LHD1 | 0.09 | 0.08 |
| tblVehicleEF | LHD1 | 0.23 | 0.21 |
| tblVehicleEF | LHD1 | 0.07 | 0.05 |
| tblVehicleEF | LHD1 | 8.7000e-005 | 8.1000e-005 |
| tblVehicleEF | LHD1 | 7.6090e-003 | 6.8460e-003 |
| tblVehicleEF | LHD1 | 1.1300e-004 | 1.0000e-004 |
| tblVehicleEF | LHD1 | 7.6200e-004 | 6.1800e-004 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |
| tblVehicleEF | LHD1 | 0.03 | 0.02 |
| tblVehicleEF | LHD1 | 4.5100e-004 | 3.8000e-004 |
| tblVehicleEF | LHD1 | 0.11 | 0.09 |
| tblVehicleEF | LHD1 | 0.23 | 0.21 |
| tblVehicleEF | LHD1 | 0.08 | 0.05 |
| tblVehicleEF | LHD2 | 3.1310e-003 | 2.5800e-003 |
| tblVehicleEF | LHD2 | 6.6950e-003 | 5.3930e-003 |
| tblVehicleEF | LHD2 | 7.9080e-003 | 5.0230e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.14 | 0.13 |
| tblVehicleEF | LHD2 | 0.60 | 0.50 |
| tblVehicleEF | LHD2 | 0.61 | 0.49 |
| tblVehicleEF | LHD2 | 13.91 | 13.05 |
| tblVehicleEF | LHD2 | 762.51 | 686.39 |
| tblVehicleEF | LHD2 | 7.76 | 6.59 |
| tblVehicleEF | LHD2 | 1.7310e-003 | 1.6650e-003 |
| tblVehicleEF | LHD2 | 0.07 | 0.06 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.10 | 0.08 |
| tblVehicleEF | LHD2 | 0.82 | 0.42 |
| tblVehicleEF | LHD2 | 0.18 | 0.13 |
| tblVehicleEF | LHD2 | 1.4140e-003 | 1.4850e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.2400e-004 | 1.0500e-004 |
| tblVehicleEF | LHD2 | 1.3520e-003 | 1.4200e-003 |
| tblVehicleEF | LHD2 | 2.6870e-003 | 2.7080e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 1.1400e-004 | 9.6000e-005 |
| tblVehicleEF | LHD2 | 8.8300e-004 | 6.0600e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 5.0400e-004 | 3.8500e-004 |
| tblVehicleEF | LHD2 | 0.11 | 0.10 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 1.3300e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 7.3640e-003 | 6.6220e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 7.7000e-005 | 6.5000e-005 |
| tblVehicleEF | LHD2 | 8.8300e-004 | 6.0600e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.02 |
| tblVehicleEF | LHD2 | 5.0400e-004 | 3.8500e-004 |
| tblVehicleEF | LHD2 | 0.13 | 0.11 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 3.1400e-003 | 2.5870e-003 |
| tblVehicleEF | LHD2 | 6.7700e-003 | 5.4280e-003 |
| tblVehicleEF | LHD2 | 7.4420e-003 | 4.7300e-003 |
| tblVehicleEF | LHD2 | 0.14 | 0.13 |
| tblVehicleEF | LHD2 | 0.61 | 0.50 |
| tblVehicleEF | LHD2 | 0.56 | 0.46 |
| tblVehicleEF | LHD2 | 13.91 | 13.05 |
| tblVehicleEF | LHD2 | 762.52 | 686.40 |
| tblVehicleEF | LHD2 | 7.68 | 6.53 |
| tblVehicleEF | LHD2 | 1.7330e-003 | 1.6660e-003 |
| tblVehicleEF | LHD2 | 0.07 | 0.06 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.10 | 0.08 |
| tblVehicleEF | LHD2 | 0.78 | 0.40 |
| tblVehicleEF | LHD2 | 0.17 | 0.12 |
| tblVehicleEF | LHD2 | 1.4140e-003 | 1.4850e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.2400e-004 | 1.0500e-004 |
| tblVehicleEF | LHD2 | 1.3520e-003 | 1.4200e-003 |
| tblVehicleEF | LHD2 | 2.6870e-003 | 2.7080e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 1.1400e-004 | 9.6000e-005 |
| tblVehicleEF | LHD2 | 2.0840e-003 | 1.3910e-003 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.0620e-003 | 7.8000e-004 |
| tblVehicleEF | LHD2 | 0.11 | 0.10 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 1.3300e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 7.3640e-003 | 6.6220e-003 |
| tblVehicleEF | LHD2 | 7.6000e-005 | 6.5000e-005 |
| tblVehicleEF | LHD2 | 2.0840e-003 | 1.3910e-003 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.02 |
| tblVehicleEF | LHD2 | 1.0620e-003 | 7.8000e-004 |
| tblVehicleEF | LHD2 | 0.13 | 0.11 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 3.1230e-003 | 2.5730e-003 |
| tblVehicleEF | LHD2 | 6.6390e-003 | 5.3660e-003 |
| tblVehicleEF | LHD2 | 8.2870e-003 | 5.2600e-003 |
| tblVehicleEF | LHD2 | 0.14 | 0.13 |
| tblVehicleEF | LHD2 | 0.60 | 0.50 |
| tblVehicleEF | LHD2 | 0.65 | 0.53 |
| tblVehicleEF | LHD2 | 13.91 | 13.05 |
| tblVehicleEF | LHD2 | 762.50 | 686.39 |
| tblVehicleEF | LHD2 | 7.83 | 6.64 |
| tblVehicleEF | LHD2 | 1.7290e-003 | 1.6640e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.07 | 0.06 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.10 | 0.08 |
| tblVehicleEF | LHD2 | 0.83 | 0.42 |
| tblVehicleEF | LHD2 | 0.19 | 0.14 |
| tblVehicleEF | LHD2 | 1.4140e-003 | 1.4850e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.2400e-004 | 1.0500e-004 |
| tblVehicleEF | LHD2 | 1.3520e-003 | 1.4200e-003 |
| tblVehicleEF | LHD2 | 2.6870e-003 | 2.7080e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 1.1400e-004 | 9.6000e-005 |
| tblVehicleEF | LHD2 | 4.0800e-004 | 3.0300e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 2.4500e-004 | 1.9200e-004 |
| tblVehicleEF | LHD2 | 0.11 | 0.10 |
| tblVehicleEF | LHD2 | 0.10 | 0.07 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 1.3300e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 7.3640e-003 | 6.6220e-003 |
| tblVehicleEF | LHD2 | 7.8000e-005 | 6.6000e-005 |
| tblVehicleEF | LHD2 | 4.0800e-004 | 3.0300e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.02 |
| tblVehicleEF | LHD2 | 2.4500e-004 | 1.9200e-004 |
| tblVehicleEF | LHD2 | 0.13 | 0.11 |
| tblVehicleEF | LHD2 | 0.10 | 0.07 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.05 | 0.03 |
| tblVehicleEF | MCY | 0.34 | 0.33 |
| tblVehicleEF | MCY | 0.26 | 0.25 |
| tblVehicleEF | MCY | 19.59 | 18.37 |
| tblVehicleEF | MCY | 9.12 | 9.28 |
| tblVehicleEF | MCY | 214.39 | 213.76 |
| tblVehicleEF | MCY | 61.37 | 59.74 |
| tblVehicleEF | MCY | 0.07 | 0.07 |
| tblVehicleEF | MCY | 0.02 | 0.02 |
| tblVehicleEF | MCY | 1.16 | 1.15 |
| tblVehicleEF | MCY | 0.27 | 0.27 |
| tblVehicleEF | MCY | 2.0760e-003 | 2.2080e-003 |
| tblVehicleEF | MCY | 3.0330e-003 | 2.8780e-003 |
| tblVehicleEF | MCY | 1.9410e-003 | 2.0600e-003 |
| tblVehicleEF | MCY | 2.8520e-003 | 2.6930e-003 |
| tblVehicleEF | MCY | 0.82 | 0.81 |
| tblVehicleEF | MCY | 0.70 | 0.64 |
| tblVehicleEF | MCY | 0.48 | 0.46 |
| tblVehicleEF | MCY | 2.30 | 2.22 |
| tblVehicleEF | MCY | 0.56 | 0.45 |
| tblVehicleEF | MCY | 1.97 | 1.91 |
| tblVehicleEF | MCY | 2.1220e-003 | 2.1150e-003 |
| tblVehicleEF | MCY | 6.0700e-004 | 5.9100e-004 |
| tblVehicleEF | MCY | 0.82 | 0.81 |
| tblVehicleEF | MCY | 0.70 | 0.64 |
| tblVehicleEF | MCY | 0.48 | 0.46 |
| tblVehicleEF | MCY | 2.85 | 2.78 |
| tblVehicleEF | MCY | 0.56 | 0.45 |
| tblVehicleEF | MCY | 2.15 | 2.08 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MCY | 0.33 | 0.32 |
| tblVehicleEF | MCY | 0.21 | 0.21 |
| tblVehicleEF | MCY | 18.64 | 17.56 |
| tblVehicleEF | MCY | 7.85 | 7.92 |
| tblVehicleEF | MCY | 212.58 | 212.21 |
| tblVehicleEF | MCY | 58.18 | 56.50 |
| tblVehicleEF | MCY | 0.06 | 0.06 |
| tblVehicleEF | MCY | 0.01 | 0.01 |
| tblVehicleEF | MCY | 1.02 | 1.01 |
| tblVehicleEF | MCY | 0.25 | 0.25 |
| tblVehicleEF | MCY | 2.0760e-003 | 2.2080e-003 |
| tblVehicleEF | MCY | 3.0330e-003 | 2.8780e-003 |
| tblVehicleEF | MCY | 1.9410e-003 | 2.0600e-003 |
| tblVehicleEF | MCY | 2.8520e-003 | 2.6930e-003 |
| tblVehicleEF | MCY | 2.28 | 2.23 |
| tblVehicleEF | MCY | 0.94 | 0.87 |
| tblVehicleEF | MCY | 1.35 | 1.28 |
| tblVehicleEF | MCY | 2.21 | 2.15 |
| tblVehicleEF | MCY | 0.52 | 0.42 |
| tblVehicleEF | MCY | 1.62 | 1.58 |
| tblVehicleEF | MCY | 2.1040e-003 | 2.1000e-003 |
| tblVehicleEF | MCY | 5.7600e-004 | 5.5900e-004 |
| tblVehicleEF | MCY | 2.28 | 2.23 |
| tblVehicleEF | MCY | 0.94 | 0.87 |
| tblVehicleEF | MCY | 1.35 | 1.28 |
| tblVehicleEF | MCY | 2.74 | 2.69 |
| tblVehicleEF | MCY | 0.52 | 0.42 |
| tblVehicleEF | MCY | 1.76 | 1.72 |
| tblVehicleEF | MCY | 0.35 | 0.34 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MCY | 0.30 | 0.29 |
| tblVehicleEF | MCY | 21.17 | 19.76 |
| tblVehicleEF | MCY | 10.46 | 10.66 |
| tblVehicleEF | MCY | 217.24 | 216.26 |
| tblVehicleEF | MCY | 64.56 | 62.93 |
| tblVehicleEF | MCY | 0.07 | 0.07 |
| tblVehicleEF | MCY | 0.02 | 0.02 |
| tblVehicleEF | MCY | 1.25 | 1.23 |
| tblVehicleEF | MCY | 0.29 | 0.29 |
| tblVehicleEF | MCY | 2.0760e-003 | 2.2080e-003 |
| tblVehicleEF | MCY | 3.0330e-003 | 2.8780e-003 |
| tblVehicleEF | MCY | 1.9410e-003 | 2.0600e-003 |
| tblVehicleEF | MCY | 2.8520e-003 | 2.6930e-003 |
| tblVehicleEF | MCY | 0.27 | 0.27 |
| tblVehicleEF | MCY | 0.83 | 0.74 |
| tblVehicleEF | MCY | 0.17 | 0.17 |
| tblVehicleEF | MCY | 2.39 | 2.30 |
| tblVehicleEF | MCY | 0.66 | 0.55 |
| tblVehicleEF | MCY | 2.30 | 2.21 |
| tblVehicleEF | MCY | 2.1500e-003 | 2.1400e-003 |
| tblVehicleEF | MCY | 6.3900e-004 | 6.2300e-004 |
| tblVehicleEF | MCY | 0.27 | 0.27 |
| tblVehicleEF | MCY | 0.83 | 0.74 |
| tblVehicleEF | MCY | 0.17 | 0.17 |
| tblVehicleEF | MCY | 2.96 | 2.87 |
| tblVehicleEF | MCY | 0.66 | 0.55 |
| tblVehicleEF | MCY | 2.50 | 2.40 |
| tblVehicleEF | MDV | 3.3270e-003 | 1.7560e-003 |
| tblVehicleEF | MDV | 0.07 | 0.04 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MDV | 0.75 | 0.54 |
| tblVehicleEF | MDV | 3.01 | 2.36 |
| tblVehicleEF | MDV | 375.57 | 324.64 |
| tblVehicleEF | MDV | 79.81 | 68.19 |
| tblVehicleEF | MDV | 7.5320e-003 | 5.2880e-003 |
| tblVehicleEF | MDV | 0.03 | 0.02 |
| tblVehicleEF | MDV | 0.07 | 0.03 |
| tblVehicleEF | MDV | 0.30 | 0.18 |
| tblVehicleEF | MDV | 1.4750e-003 | 1.0550e-003 |
| tblVehicleEF | MDV | 1.8190e-003 | 1.3680e-003 |
| tblVehicleEF | MDV | 1.3600e-003 | 9.7300e-004 |
| tblVehicleEF | MDV | 1.6730e-003 | 1.2580e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.06 | 0.06 |
| tblVehicleEF | MDV | 0.01 | 6.7850e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.35 | 0.20 |
| tblVehicleEF | MDV | 3.6390e-003 | 3.0040e-003 |
| tblVehicleEF | MDV | 7.7400e-004 | 6.3100e-004 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.06 | 0.06 |
| tblVehicleEF | MDV | 0.02 | 9.8300e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.38 | 0.22 |
| tblVehicleEF | MDV | 3.7530e-003 | 1.9850e-003 |
| tblVehicleEF | MDV | 0.06 | 0.04 |
| tblVehicleEF | MDV | 0.88 | 0.63 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MDV | 2.33 | 1.84 |
| tblVehicleEF | MDV | 394.37 | 340.28 |
| tblVehicleEF | MDV | 78.49 | 67.18 |
| tblVehicleEF | MDV | 7.0800e-003 | 5.0040e-003 |
| tblVehicleEF | MDV | 0.03 | 0.02 |
| tblVehicleEF | MDV | 0.06 | 0.03 |
| tblVehicleEF | MDV | 0.26 | 0.16 |
| tblVehicleEF | MDV | 1.4750e-003 | 1.0550e-003 |
| tblVehicleEF | MDV | 1.8190e-003 | 1.3680e-003 |
| tblVehicleEF | MDV | 1.3600e-003 | 9.7300e-004 |
| tblVehicleEF | MDV | 1.6730e-003 | 1.2580e-003 |
| tblVehicleEF | MDV | 0.15 | 0.13 |
| tblVehicleEF | MDV | 0.14 | 0.11 |
| tblVehicleEF | MDV | 0.13 | 0.11 |
| tblVehicleEF | MDV | 0.02 | 7.5250e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.29 | 0.17 |
| tblVehicleEF | MDV | 3.8210e-003 | 3.1480e-003 |
| tblVehicleEF | MDV | 7.6100e-004 | 6.2100e-004 |
| tblVehicleEF | MDV | 0.15 | 0.13 |
| tblVehicleEF | MDV | 0.14 | 0.11 |
| tblVehicleEF | MDV | 0.13 | 0.11 |
| tblVehicleEF | MDV | 0.02 | 0.01 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.31 | 0.18 |
| tblVehicleEF | MDV | 3.2110e-003 | 1.6900e-003 |
| tblVehicleEF | MDV | 0.08 | 0.05 |
| tblVehicleEF | MDV | 0.75 | 0.53 |
| tblVehicleEF | MDV | 3.53 | 2.77 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MDV | 373.29 | 322.76 |
| tblVehicleEF | MDV | 80.81 | 68.96 |
| tblVehicleEF | MDV | 7.9370e-003 | 5.5430e-003 |
| tblVehicleEF | MDV | 0.03 | 0.02 |
| tblVehicleEF | MDV | 0.08 | 0.04 |
| tblVehicleEF | MDV | 0.32 | 0.20 |
| tblVehicleEF | MDV | 1.4750e-003 | 1.0550e-003 |
| tblVehicleEF | MDV | 1.8190e-003 | 1.3680e-003 |
| tblVehicleEF | MDV | 1.3600e-003 | 9.7300e-004 |
| tblVehicleEF | MDV | 1.6730e-003 | 1.2580e-003 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.01 | 6.6150e-003 |
| tblVehicleEF | MDV | 0.07 | 0.06 |
| tblVehicleEF | MDV | 0.40 | 0.23 |
| tblVehicleEF | MDV | 3.6170e-003 | 2.9860e-003 |
| tblVehicleEF | MDV | 7.8300e-004 | 6.3800e-004 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.02 | 9.5820e-003 |
| tblVehicleEF | MDV | 0.07 | 0.06 |
| tblVehicleEF | MDV | 0.43 | 0.25 |
| tblVehicleEF | MH | 9.2590e-003 | 5.0570e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 0.88 | 0.32 |
| tblVehicleEF | MH | 2.01 | 1.63 |
| tblVehicleEF | MH | 1,500.18 | 1,351.69 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MH | 17.93 | 15.45 |
| tblVehicleEF | MH | 0.06 | 0.05 |
| tblVehicleEF | MH | 0.03 | 0.03 |
| tblVehicleEF | MH | 1.34 | 1.09 |
| tblVehicleEF | MH | 0.24 | 0.24 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.5200e-004 | 2.0900e-004 |
| tblVehicleEF | MH | 3.2840e-003 | 3.3000e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.3200e-004 | 1.9300e-004 |
| tblVehicleEF | MH | 0.56 | 0.31 |
| tblVehicleEF | MH | 0.05 | 0.03 |
| tblVehicleEF | MH | 0.21 | 0.13 |
| tblVehicleEF | MH | 0.06 | 0.04 |
| tblVehicleEF | MH | 0.01 | 5.4940e-003 |
| tblVehicleEF | MH | 0.09 | 0.07 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 1.7700e-004 | 1.5300e-004 |
| tblVehicleEF | MH | 0.56 | 0.31 |
| tblVehicleEF | MH | 0.05 | 0.03 |
| tblVehicleEF | MH | 0.21 | 0.13 |
| tblVehicleEF | MH | 0.08 | 0.05 |
| tblVehicleEF | MH | 0.01 | 5.4940e-003 |
| tblVehicleEF | MH | 0.10 | 0.08 |
| tblVehicleEF | MH | 9.5620e-003 | 5.1780e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 0.92 | 0.32 |
| tblVehicleEF | MH | 1.82 | 1.48 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MH | 1,500.24 | 1,351.71 |
| tblVehicleEF | MH | 17.62 | 15.20 |
| tblVehicleEF | MH | 0.06 | 0.05 |
| tblVehicleEF | MH | 0.03 | 0.03 |
| tblVehicleEF | MH | 1.27 | 1.04 |
| tblVehicleEF | MH | 0.22 | 0.22 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.5200e-004 | 2.0900e-004 |
| tblVehicleEF | MH | 3.2840e-003 | 3.3000e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.3200e-004 | 1.9300e-004 |
| tblVehicleEF | MH | 1.32 | 0.73 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.46 | 0.28 |
| tblVehicleEF | MH | 0.06 | 0.04 |
| tblVehicleEF | MH | 0.01 | 5.3430e-003 |
| tblVehicleEF | MH | 0.08 | 0.07 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 1.7400e-004 | 1.5000e-004 |
| tblVehicleEF | MH | 1.32 | 0.73 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.46 | 0.28 |
| tblVehicleEF | MH | 0.08 | 0.05 |
| tblVehicleEF | MH | 0.01 | 5.3430e-003 |
| tblVehicleEF | MH | 0.09 | 0.08 |
| tblVehicleEF | MH | 9.0400e-003 | 4.9670e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 0.86 | 0.31 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MH | 2.17 | 1.75 |
| tblVehicleEF | MH | 1,500.14 | 1,351.68 |
| tblVehicleEF | MH | 18.20 | 15.66 |
| tblVehicleEF | MH | 0.06 | 0.05 |
| tblVehicleEF | MH | 0.03 | 0.03 |
| tblVehicleEF | MH | 1.37 | 1.11 |
| tblVehicleEF | MH | 0.26 | 0.25 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.5200e-004 | 2.0900e-004 |
| tblVehicleEF | MH | 3.2840e-003 | 3.3000e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.3200e-004 | 1.9300e-004 |
| tblVehicleEF | MH | 0.24 | 0.15 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.10 | 0.07 |
| tblVehicleEF | MH | 0.06 | 0.04 |
| tblVehicleEF | MH | 0.01 | 5.9510e-003 |
| tblVehicleEF | MH | 0.10 | 0.08 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 1.8000e-004 | 1.5500e-004 |
| tblVehicleEF | MH | 0.24 | 0.15 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.10 | 0.07 |
| tblVehicleEF | MH | 0.08 | 0.05 |
| tblVehicleEF | MH | 0.01 | 5.9510e-003 |
| tblVehicleEF | MH | 0.10 | 0.09 |
| tblVehicleEF | MHD | 3.2680e-003 | 3.2270e-003 |
| tblVehicleEF | MHD | 1.5920e-003 | 9.3800e-004 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 8.3460e-003 | 7.0270e-003 |
| tblVehicleEF | MHD | 0.39 | 0.40 |
| tblVehicleEF | MHD | 0.22 | 0.15 |
| tblVehicleEF | MHD | 0.97 | 0.73 |
| tblVehicleEF | MHD | 77.14 | 70.46 |
| tblVehicleEF | MHD | 1,063.76 | 968.31 |
| tblVehicleEF | MHD | 8.30 | 7.11 |
| tblVehicleEF | MHD | 0.01 | 0.01 |
| tblVehicleEF | MHD | 0.14 | 0.13 |
| tblVehicleEF | MHD | 6.5730e-003 | 6.4400e-003 |
| tblVehicleEF | MHD | 0.45 | 0.38 |
| tblVehicleEF | MHD | 1.43 | 1.43 |
| tblVehicleEF | MHD | 1.75 | 1.78 |
| tblVehicleEF | MHD | 3.7700e-004 | 1.6900e-004 |
| tblVehicleEF | MHD | 6.9020e-003 | 6.9630e-003 |
| tblVehicleEF | MHD | 1.0000e-004 | 9.0000e-005 |
| tblVehicleEF | MHD | 3.6100e-004 | 1.6100e-004 |
| tblVehicleEF | MHD | 6.5980e-003 | 6.6560e-003 |
| tblVehicleEF | MHD | 9.2000e-005 | 8.3000e-005 |
| tblVehicleEF | MHD | 3.2200e-004 | 2.2800e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 1.8400e-004 | 1.4600e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.04 | 0.03 |
| tblVehicleEF | MHD | 7.3100e-004 | 6.6800e-004 |
| tblVehicleEF | MHD | 0.01 | 9.2240e-003 |
| tblVehicleEF | MHD | 8.2000e-005 | 7.0000e-005 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 3.2200e-004 | 2.2800e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 1.8400e-004 | 1.4600e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.05 | 0.04 |
| tblVehicleEF | MHD | 3.0860e-003 | 3.0510e-003 |
| tblVehicleEF | MHD | 1.6370e-003 | 9.5900e-004 |
| tblVehicleEF | MHD | 7.8280e-003 | 6.6030e-003 |
| tblVehicleEF | MHD | 0.33 | 0.34 |
| tblVehicleEF | MHD | 0.23 | 0.15 |
| tblVehicleEF | MHD | 0.89 | 0.67 |
| tblVehicleEF | MHD | 77.11 | 70.04 |
| tblVehicleEF | MHD | 1,063.77 | 968.32 |
| tblVehicleEF | MHD | 8.16 | 7.00 |
| tblVehicleEF | MHD | 0.01 | 0.01 |
| tblVehicleEF | MHD | 0.14 | 0.13 |
| tblVehicleEF | MHD | 6.2730e-003 | 6.1400e-003 |
| tblVehicleEF | MHD | 0.44 | 0.37 |
| tblVehicleEF | MHD | 1.38 | 1.38 |
| tblVehicleEF | MHD | 1.74 | 1.77 |
| tblVehicleEF | MHD | 3.2200e-004 | 1.4600e-004 |
| tblVehicleEF | MHD | 6.9020e-003 | 6.9630e-003 |
| tblVehicleEF | MHD | 1.0000e-004 | 9.0000e-005 |
| tblVehicleEF | MHD | 3.0800e-004 | 1.4000e-004 |
| tblVehicleEF | MHD | 6.5980e-003 | 6.6560e-003 |
| tblVehicleEF | MHD | 9.2000e-005 | 8.3000e-005 |
| tblVehicleEF | MHD | 7.7400e-004 | 5.2800e-004 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 4.0200e-004 | 3.0000e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.04 | 0.03 |
| tblVehicleEF | MHD | 7.3100e-004 | 6.6400e-004 |
| tblVehicleEF | MHD | 0.01 | 9.2240e-003 |
| tblVehicleEF | MHD | 8.1000e-005 | 6.9000e-005 |
| tblVehicleEF | MHD | 7.7400e-004 | 5.2800e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 4.0200e-004 | 3.0000e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.04 | 0.04 |
| tblVehicleEF | MHD | 3.4470e-003 | 3.3980e-003 |
| tblVehicleEF | MHD | 1.5590e-003 | 9.2200e-004 |
| tblVehicleEF | MHD | 8.7440e-003 | 7.3520e-003 |
| tblVehicleEF | MHD | 0.45 | 0.45 |
| tblVehicleEF | MHD | 0.22 | 0.14 |
| tblVehicleEF | MHD | 1.04 | 0.78 |
| tblVehicleEF | MHD | 77.29 | 71.13 |
| tblVehicleEF | MHD | 1,063.75 | 968.31 |
| tblVehicleEF | MHD | 8.43 | 7.20 |
| tblVehicleEF | MHD | 0.01 | 0.01 |
| tblVehicleEF | MHD | 0.14 | 0.13 |
| tblVehicleEF | MHD | 6.8340e-003 | 6.6960e-003 |
| tblVehicleEF | MHD | 0.47 | 0.40 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 1.46 | 1.46 |
| tblVehicleEF | MHD | 1.75 | 1.78 |
| tblVehicleEF | MHD | 4.5400e-004 | 2.0000e-004 |
| tblVehicleEF | MHD | 6.9020e-003 | 6.9630e-003 |
| tblVehicleEF | MHD | 1.0000e-004 | 9.0000e-005 |
| tblVehicleEF | MHD | 4.3500e-004 | 1.9200e-004 |
| tblVehicleEF | MHD | 6.5980e-003 | 6.6560e-003 |
| tblVehicleEF | MHD | 9.2000e-005 | 8.3000e-005 |
| tblVehicleEF | MHD | 1.4700e-004 | 1.1500e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 8.6000e-005 | 7.2000e-005 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.05 | 0.04 |
| tblVehicleEF | MHD | 7.3300e-004 | 6.7400e-004 |
| tblVehicleEF | MHD | 0.01 | 9.2240e-003 |
| tblVehicleEF | MHD | 8.3000e-005 | 7.1000e-005 |
| tblVehicleEF | MHD | 1.4700e-004 | 1.1500e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 8.6000e-005 | 7.2000e-005 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.05 | 0.04 |
| tblVehicleEF | OBUS | 7.5460e-003 | 7.3320e-003 |
| tblVehicleEF | OBUS | 4.6420e-003 | 2.4610e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.61 | 0.69 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 0.54 | 0.29 |
| tblVehicleEF | OBUS | 2.05 | 1.68 |
| tblVehicleEF | OBUS | 94.83 | 102.80 |
| tblVehicleEF | OBUS | 1,366.37 | 1,219.51 |
| tblVehicleEF | OBUS | 16.54 | 14.05 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 0.13 | 0.12 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.38 | 0.46 |
| tblVehicleEF | OBUS | 1.41 | 1.41 |
| tblVehicleEF | OBUS | 1.01 | 1.11 |
| tblVehicleEF | OBUS | 1.2600e-004 | 1.5300e-004 |
| tblVehicleEF | OBUS | 7.6120e-003 | 8.0870e-003 |
| tblVehicleEF | OBUS | 1.6300e-004 | 1.5700e-004 |
| tblVehicleEF | OBUS | 1.2100e-004 | 1.4600e-004 |
| tblVehicleEF | OBUS | 7.2680e-003 | 7.7230e-003 |
| tblVehicleEF | OBUS | 1.5000e-004 | 1.4500e-004 |
| tblVehicleEF | OBUS | 1.2070e-003 | 1.0910e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 5.7100e-004 | 5.3900e-004 |
| tblVehicleEF | OBUS | 0.03 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.10 | 0.08 |
| tblVehicleEF | OBUS | 9.0100e-004 | 9.7600e-004 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 1.6400e-004 | 1.3900e-004 |
| tblVehicleEF | OBUS | 1.2070e-003 | 1.0910e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 0.06 | 0.07 |
| tblVehicleEF | OBUS | 5.7100e-004 | 5.3900e-004 |
| tblVehicleEF | OBUS | 0.04 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.11 | 0.09 |
| tblVehicleEF | OBUS | 7.6420e-003 | 7.4450e-003 |
| tblVehicleEF | OBUS | 4.8080e-003 | 2.5400e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.60 | 0.68 |
| tblVehicleEF | OBUS | 0.56 | 0.30 |
| tblVehicleEF | OBUS | 1.87 | 1.53 |
| tblVehicleEF | OBUS | 93.70 | 101.54 |
| tblVehicleEF | OBUS | 1,366.40 | 1,219.52 |
| tblVehicleEF | OBUS | 16.22 | 13.79 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 0.13 | 0.12 |
| tblVehicleEF | OBUS | 0.02 | 0.01 |
| tblVehicleEF | OBUS | 0.36 | 0.44 |
| tblVehicleEF | OBUS | 1.34 | 1.35 |
| tblVehicleEF | OBUS | 1.00 | 1.09 |
| tblVehicleEF | OBUS | 1.1200e-004 | 1.3600e-004 |
| tblVehicleEF | OBUS | 7.6120e-003 | 8.0870e-003 |
| tblVehicleEF | OBUS | 1.6300e-004 | 1.5700e-004 |
| tblVehicleEF | OBUS | 1.0700e-004 | 1.3000e-004 |
| tblVehicleEF | OBUS | 7.2680e-003 | 7.7230e-003 |
| tblVehicleEF | OBUS | 1.5000e-004 | 1.4500e-004 |
| tblVehicleEF | OBUS | 2.7510e-003 | 2.4450e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.06 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 1.1940e-003 | 1.0970e-003 |
| tblVehicleEF | OBUS | 0.03 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.09 | 0.08 |
| tblVehicleEF | OBUS | 8.9100e-004 | 9.6400e-004 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 1.6000e-004 | 1.3600e-004 |
| tblVehicleEF | OBUS | 2.7510e-003 | 2.4450e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.07 | 0.07 |
| tblVehicleEF | OBUS | 1.1940e-003 | 1.0970e-003 |
| tblVehicleEF | OBUS | 0.04 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.10 | 0.08 |
| tblVehicleEF | OBUS | 7.4290e-003 | 7.1920e-003 |
| tblVehicleEF | OBUS | 4.5240e-003 | 2.4030e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.62 | 0.69 |
| tblVehicleEF | OBUS | 0.53 | 0.29 |
| tblVehicleEF | OBUS | 2.21 | 1.81 |
| tblVehicleEF | OBUS | 96.39 | 104.53 |
| tblVehicleEF | OBUS | 1,366.34 | 1,219.50 |
| tblVehicleEF | OBUS | 16.80 | 14.27 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 0.13 | 0.12 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.41 | 0.49 |
| tblVehicleEF | OBUS | 1.44 | 1.44 |
| tblVehicleEF | OBUS | 1.02 | 1.12 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 1.4600e-004 | 1.7600e-004 |
| tblVehicleEF | OBUS | 7.6120e-003 | 8.0870e-003 |
| tblVehicleEF | OBUS | 1.6300e-004 | 1.5700e-004 |
| tblVehicleEF | OBUS | 1.3900e-004 | 1.6900e-004 |
| tblVehicleEF | OBUS | 7.2680e-003 | 7.7230e-003 |
| tblVehicleEF | OBUS | 1.5000e-004 | 1.4500e-004 |
| tblVehicleEF | OBUS | 6.1800e-004 | 5.8900e-004 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 2.8000e-004 | 2.7400e-004 |
| tblVehicleEF | OBUS | 0.03 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.06 |
| tblVehicleEF | OBUS | 0.10 | 0.09 |
| tblVehicleEF | OBUS | 9.1600e-004 | 9.9200e-004 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 1.6600e-004 | 1.4100e-004 |
| tblVehicleEF | OBUS | 6.1800e-004 | 5.8900e-004 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.06 | 0.06 |
| tblVehicleEF | OBUS | 2.8000e-004 | 2.7400e-004 |
| tblVehicleEF | OBUS | 0.04 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.06 |
| tblVehicleEF | OBUS | 0.11 | 0.09 |
| tblVehicleEF | SBUS | 0.05 | 0.06 |
| tblVehicleEF | SBUS | 4.9990e-003 | 3.4080e-003 |
| tblVehicleEF | SBUS | 4.1290e-003 | 4.8910e-003 |
| tblVehicleEF | SBUS | 2.09 | 2.56 |
| tblVehicleEF | SBUS | 0.41 | 0.29 |
| tblVehicleEF | SBUS | 0.60 | 0.68 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 334.38 | 316.42 |
| tblVehicleEF | SBUS | 1,023.89 | 936.84 |
| tblVehicleEF | SBUS | 3.46 | 3.97 |
| tblVehicleEF | SBUS | 0.05 | 0.04 |
| tblVehicleEF | SBUS | 0.13 | 0.12 |
| tblVehicleEF | SBUS | 3.9630e-003 | 4.9690e-003 |
| tblVehicleEF | SBUS | 3.05 | 2.32 |
| tblVehicleEF | SBUS | 4.00 | 2.57 |
| tblVehicleEF | SBUS | 1.06 | 1.41 |
| tblVehicleEF | SBUS | 2.8790e-003 | 1.5510e-003 |
| tblVehicleEF | SBUS | 0.01 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.6000e-005 | 5.9000e-005 |
| tblVehicleEF | SBUS | 2.7540e-003 | 1.4840e-003 |
| tblVehicleEF | SBUS | 2.7460e-003 | 2.7130e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.2000e-005 | 5.4000e-005 |
| tblVehicleEF | SBUS | 3.7600e-004 | 5.4600e-004 |
| tblVehicleEF | SBUS | 3.8150e-003 | 5.4730e-003 |
| tblVehicleEF | SBUS | 0.22 | 0.26 |
| tblVehicleEF | SBUS | 1.7100e-004 | 2.7600e-004 |
| tblVehicleEF | SBUS | 0.07 | 0.05 |
| tblVehicleEF | SBUS | 7.6050e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.03 |
| tblVehicleEF | SBUS | 3.1800e-003 | 3.0130e-003 |
| tblVehicleEF | SBUS | 9.7680e-003 | 8.9520e-003 |
| tblVehicleEF | SBUS | 3.4000e-005 | 3.9000e-005 |
| tblVehicleEF | SBUS | 3.7600e-004 | 5.4600e-004 |
| tblVehicleEF | SBUS | 3.8150e-003 | 5.4730e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 0.31 | 0.38 |
| tblVehicleEF | SBUS | 1.7100e-004 | 2.7600e-004 |
| tblVehicleEF | SBUS | 0.08 | 0.06 |
| tblVehicleEF | SBUS | 7.6050e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.03 | 0.03 |
| tblVehicleEF | SBUS | 0.05 | 0.06 |
| tblVehicleEF | SBUS | 5.0750e-003 | 3.4610e-003 |
| tblVehicleEF | SBUS | 3.4710e-003 | 4.1100e-003 |
| tblVehicleEF | SBUS | 2.06 | 2.53 |
| tblVehicleEF | SBUS | 0.41 | 0.29 |
| tblVehicleEF | SBUS | 0.44 | 0.50 |
| tblVehicleEF | SBUS | 341.28 | 319.50 |
| tblVehicleEF | SBUS | 1,023.90 | 936.85 |
| tblVehicleEF | SBUS | 3.19 | 3.67 |
| tblVehicleEF | SBUS | 0.05 | 0.04 |
| tblVehicleEF | SBUS | 0.13 | 0.12 |
| tblVehicleEF | SBUS | 3.7660e-003 | 4.7200e-003 |
| tblVehicleEF | SBUS | 3.10 | 2.32 |
| tblVehicleEF | SBUS | 3.84 | 2.46 |
| tblVehicleEF | SBUS | 1.06 | 1.40 |
| tblVehicleEF | SBUS | 2.4360e-003 | 1.3190e-003 |
| tblVehicleEF | SBUS | 0.01 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.6000e-005 | 5.9000e-005 |
| tblVehicleEF | SBUS | 2.3310e-003 | 1.2620e-003 |
| tblVehicleEF | SBUS | 2.7460e-003 | 2.7130e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.2000e-005 | 5.4000e-005 |
| tblVehicleEF | SBUS | 8.5100e-004 | 1.1970e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 3.9770e-003 | 5.6050e-003 |
| tblVehicleEF | SBUS | 0.22 | 0.26 |
| tblVehicleEF | SBUS | 3.6700e-004 | 5.5800e-004 |
| tblVehicleEF | SBUS | 0.07 | 0.05 |
| tblVehicleEF | SBUS | 6.4150e-003 | 8.9170e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 3.2450e-003 | 3.0430e-003 |
| tblVehicleEF | SBUS | 9.7680e-003 | 8.9520e-003 |
| tblVehicleEF | SBUS | 3.2000e-005 | 3.6000e-005 |
| tblVehicleEF | SBUS | 8.5100e-004 | 1.1970e-003 |
| tblVehicleEF | SBUS | 3.9770e-003 | 5.6050e-003 |
| tblVehicleEF | SBUS | 0.31 | 0.38 |
| tblVehicleEF | SBUS | 3.6700e-004 | 5.5800e-004 |
| tblVehicleEF | SBUS | 0.08 | 0.06 |
| tblVehicleEF | SBUS | 6.4150e-003 | 8.9170e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.03 |
| tblVehicleEF | SBUS | 0.05 | 0.06 |
| tblVehicleEF | SBUS | 4.9420e-003 | 3.3690e-003 |
| tblVehicleEF | SBUS | 4.6630e-003 | 5.5230e-003 |
| tblVehicleEF | SBUS | 2.14 | 2.59 |
| tblVehicleEF | SBUS | 0.40 | 0.29 |
| tblVehicleEF | SBUS | 0.75 | 0.84 |
| tblVehicleEF | SBUS | 324.86 | 312.18 |
| tblVehicleEF | SBUS | 1,023.88 | 936.84 |
| tblVehicleEF | SBUS | 3.70 | 4.24 |
| tblVehicleEF | SBUS | 0.05 | 0.04 |
| tblVehicleEF | SBUS | 0.13 | 0.12 |
| tblVehicleEF | SBUS | 4.1250e-003 | 5.1740e-003 |
| tblVehicleEF | SBUS | 2.97 | 2.31 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 4.07 | 2.62 |
| tblVehicleEF | SBUS | 1.06 | 1.41 |
| tblVehicleEF | SBUS | 3.4900e-003 | 1.8720e-003 |
| tblVehicleEF | SBUS | 0.01 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.6000e-005 | 5.9000e-005 |
| tblVehicleEF | SBUS | 3.3390e-003 | 1.7910e-003 |
| tblVehicleEF | SBUS | 2.7460e-003 | 2.7130e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.2000e-005 | 5.4000e-005 |
| tblVehicleEF | SBUS | 1.9800e-004 | 3.1300e-004 |
| tblVehicleEF | SBUS | 3.8980e-003 | 5.5430e-003 |
| tblVehicleEF | SBUS | 0.22 | 0.26 |
| tblVehicleEF | SBUS | 8.5000e-005 | 1.4300e-004 |
| tblVehicleEF | SBUS | 0.07 | 0.05 |
| tblVehicleEF | SBUS | 9.8980e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.03 | 0.03 |
| tblVehicleEF | SBUS | 3.0900e-003 | 2.9730e-003 |
| tblVehicleEF | SBUS | 9.7680e-003 | 8.9510e-003 |
| tblVehicleEF | SBUS | 3.7000e-005 | 4.2000e-005 |
| tblVehicleEF | SBUS | 1.9800e-004 | 3.1300e-004 |
| tblVehicleEF | SBUS | 3.8980e-003 | 5.5430e-003 |
| tblVehicleEF | SBUS | 0.31 | 0.38 |
| tblVehicleEF | SBUS | 8.5000e-005 | 1.4300e-004 |
| tblVehicleEF | SBUS | 0.08 | 0.06 |
| tblVehicleEF | SBUS | 9.8980e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.03 | 0.03 |
| tblVehicleEF | UBUS | 1.31 | 1.76 |
| tblVehicleEF | UBUS | 5.6580e-003 | 4.9700e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | UBUS | 9.77 | 13.30 |
| tblVehicleEF | UBUS | 0.42 | 0.42 |
| tblVehicleEF | UBUS | 1,631.11 | 1,631.09 |
| tblVehicleEF | UBUS | 4.56 | 4.00 |
| tblVehicleEF | UBUS | 0.26 | 0.27 |
| tblVehicleEF | UBUS | 4.0700e-003 | 3.6960e-003 |
| tblVehicleEF | UBUS | 0.70 | 0.68 |
| tblVehicleEF | UBUS | 0.05 | 0.04 |
| tblVehicleEF | UBUS | 5.0900e-003 | 4.9500e-003 |
| tblVehicleEF | UBUS | 3.6000e-005 | 5.0000e-005 |
| tblVehicleEF | UBUS | 4.8670e-003 | 4.7320e-003 |
| tblVehicleEF | UBUS | 3.3000e-005 | 4.6000e-005 |
| tblVehicleEF | UBUS | 2.5000e-004 | 1.4800e-004 |
| tblVehicleEF | UBUS | 3.7780e-003 | 1.8210e-003 |
| tblVehicleEF | UBUS | 1.6000e-004 | 8.8000e-005 |
| tblVehicleEF | UBUS | 0.02 | 0.03 |
| tblVehicleEF | UBUS | 9.7800e-004 | 3.8300e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.02 |
| tblVehicleEF | UBUS | 0.01 | 0.01 |
| tblVehicleEF | UBUS | 4.5000e-005 | 4.0000e-005 |
| tblVehicleEF | UBUS | 2.5000e-004 | 1.4800e-004 |
| tblVehicleEF | UBUS | 3.7780e-003 | 1.8210e-003 |
| tblVehicleEF | UBUS | 1.6000e-004 | 8.8000e-005 |
| tblVehicleEF | UBUS | 1.34 | 1.79 |
| tblVehicleEF | UBUS | 9.7800e-004 | 3.8300e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.02 |
| tblVehicleEF | UBUS | 1.31 | 1.76 |
| tblVehicleEF | UBUS | 5.0110e-003 | 4.3930e-003 |
| tblVehicleEF | UBUS | 9.77 | 13.30 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | | | |
|---|---|---|---|
| tblVehicleEF | UBUS | 0.34 | 0.34 |
| tblVehicleEF | UBUS | 1,631.11 | 1,631.09 |
| tblVehicleEF | UBUS | 4.42 | 3.86 |
| tblVehicleEF | UBUS | 0.26 | 0.27 |
| tblVehicleEF | UBUS | 3.8980e-003 | 3.5400e-003 |
| tblVehicleEF | UBUS | 0.69 | 0.67 |
| tblVehicleEF | UBUS | 0.04 | 0.04 |
| tblVehicleEF | UBUS | 5.0900e-003 | 4.9500e-003 |
| tblVehicleEF | UBUS | 3.6000e-005 | 5.0000e-005 |
| tblVehicleEF | UBUS | 4.8670e-003 | 4.7320e-003 |
| tblVehicleEF | UBUS | 3.3000e-005 | 4.6000e-005 |
| tblVehicleEF | UBUS | 5.8100e-004 | 3.6400e-004 |
| tblVehicleEF | UBUS | 4.1810e-003 | 2.1220e-003 |
| tblVehicleEF | UBUS | 3.3500e-004 | 2.1200e-004 |
| tblVehicleEF | UBUS | 0.02 | 0.03 |
| tblVehicleEF | UBUS | 8.7200e-004 | 3.4800e-004 |
| tblVehicleEF | UBUS | 0.02 | 0.02 |
| tblVehicleEF | UBUS | 0.01 | 0.01 |
| tblVehicleEF | UBUS | 4.4000e-005 | 3.8000e-005 |
| tblVehicleEF | UBUS | 5.8100e-004 | 3.6400e-004 |
| tblVehicleEF | UBUS | 4.1810e-003 | 2.1220e-003 |
| tblVehicleEF | UBUS | 3.3500e-004 | 2.1200e-004 |
| tblVehicleEF | UBUS | 1.34 | 1.79 |
| tblVehicleEF | UBUS | 8.7200e-004 | 3.4800e-004 |
| tblVehicleEF | UBUS | 0.02 | 0.02 |
| tblVehicleEF | UBUS | 1.31 | 1.76 |
| tblVehicleEF | UBUS | 6.1970e-003 | 5.4470e-003 |
| tblVehicleEF | UBUS | 9.77 | 13.30 |
| tblVehicleEF | UBUS | 0.50 | 0.49 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | UBUS | 1,631.11 | 1,631.09 |
| tblVehicleEF | UBUS | 4.69 | 4.12 |
| tblVehicleEF | UBUS | 0.26 | 0.27 |
| tblVehicleEF | UBUS | 4.2340e-003 | 3.8450e-003 |
| tblVehicleEF | UBUS | 0.70 | 0.68 |
| tblVehicleEF | UBUS | 0.05 | 0.04 |
| tblVehicleEF | UBUS | 5.0900e-003 | 4.9500e-003 |
| tblVehicleEF | UBUS | 3.6000e-005 | 5.0000e-005 |
| tblVehicleEF | UBUS | 4.8670e-003 | 4.7320e-003 |
| tblVehicleEF | UBUS | 3.3000e-005 | 4.6000e-005 |
| tblVehicleEF | UBUS | 1.2500e-004 | 6.3000e-005 |
| tblVehicleEF | UBUS | 3.8940e-003 | 1.9060e-003 |
| tblVehicleEF | UBUS | 7.0000e-005 | 3.8000e-005 |
| tblVehicleEF | UBUS | 0.02 | 0.03 |
| tblVehicleEF | UBUS | 1.2370e-003 | 4.7200e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.02 |
| tblVehicleEF | UBUS | 0.01 | 0.01 |
| tblVehicleEF | UBUS | 4.6000e-005 | 4.1000e-005 |
| tblVehicleEF | UBUS | 1.2500e-004 | 6.3000e-005 |
| tblVehicleEF | UBUS | 3.8940e-003 | 1.9060e-003 |
| tblVehicleEF | UBUS | 7.0000e-005 | 3.8000e-005 |
| tblVehicleEF | UBUS | 1.34 | 1.79 |
| tblVehicleEF | UBUS | 1.2370e-003 | 4.7200e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.03 |
| tblVehicleTrips | WD_TR | 5.44 | 3.75 |
| tblVehicleTrips | WD_TR | 5.44 | 7.20 |
| tblVehicleTrips | WD_TR | 11.26 | 10.40 |
| tblVehicleTrips | WD_TR | 44.32 | 46.50 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

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

| | | | |
|---|---|---|---|
| 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 | 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 | 1.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 1.48 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.48 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

## 2.0 Emissions Summary

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 2.1 Overall Construction (Maximum Daily Emission)

### 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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 2.1502 | 26.6656 | 20.4716 | 0.0439 | 8.1547 | 0.9687 | 9.1234 | 3.6263 | 0.8925 | 4.5189 | 0.0000 | 4,439.3132 | 4,439.3132 | 1.0476 | 0.2606 | 4,540.3015 |
| 2023 | 15.0054 | 17.5533 | 26.2343 | 0.0483 | 1.3087 | 0.8659 | 2.1747 | 0.3503 | 0.8315 | 1.1818 | 0.0000 | 4,702.5296 | 4,702.5296 | 0.6338 | 0.0921 | 4,745.8091 |
| **Maximum** | **15.0054** | **26.6656** | **26.2343** | **0.0483** | **8.1547** | **0.9687** | **9.1234** | **3.6263** | **0.8925** | **4.5189** | **0.0000** | **4,702.5296** | **4,702.5296** | **1.0476** | **0.2606** | **4,745.8091** |

### 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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 2.1502 | 26.6656 | 20.4716 | 0.0439 | 3.9531 | 0.1765 | 4.1296 | 1.7090 | 0.1637 | 1.8728 | 0.0000 | 4,439.3132 | 4,439.3132 | 1.0476 | 0.2606 | 4,540.3015 |
| 2023 | 15.0054 | 17.5533 | 26.2343 | 0.0483 | 1.3087 | 0.1394 | 1.4482 | 0.3503 | 0.1337 | 0.4840 | 0.0000 | 4,702.5296 | 4,702.5296 | 0.6338 | 0.0921 | 4,745.8090 |
| **Maximum** | **15.0054** | **26.6656** | **26.2343** | **0.0483** | **3.9531** | **0.1765** | **4.1296** | **1.7090** | **0.1637** | **1.8728** | **0.0000** | **4,702.5296** | **4,702.5296** | **1.0476** | **0.2606** | **4,745.8090** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 44.40 | 82.78 | 50.63 | 48.21 | 82.75 | 58.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 4.4884 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | 0.0000 | 22.1453 | 22.1453 | 0.0213 | 0.0000 | 22.6770 |
| Energy | 9.2800e-003 | 0.0843 | 0.0709 | 5.1000e-004 | | 6.4100e-003 | 6.4100e-003 | | 6.4100e-003 | 6.4100e-003 | | 101.2129 | 101.2129 | 1.9400e-003 | 1.8600e-003 | 101.8144 |
| Mobile | 2.3386 | 2.0558 | 19.5685 | 0.0436 | 5.4183 | 0.0277 | 5.4460 | 1.4433 | 0.0258 | 1.4691 | | 4,691.1966 | 4,691.1966 | 0.2562 | 0.1956 | 4,755.9015 |
| **Total** | **6.8362** | **2.2818** | **31.9320** | **0.0448** | **5.4183** | **0.1022** | **5.5205** | **1.4433** | **0.1004** | **1.5436** | **0.0000** | **4,814.5549** | **4,814.5549** | **0.2794** | **0.1975** | **4,880.3929** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 4.4884 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | 0.0000 | 22.1453 | 22.1453 | 0.0213 | 0.0000 | 22.6770 |
| Energy | 9.2800e-003 | 0.0843 | 0.0709 | 5.1000e-004 | | 6.4100e-003 | 6.4100e-003 | | 6.4100e-003 | 6.4100e-003 | | 101.2129 | 101.2129 | 1.9400e-003 | 1.8600e-003 | 101.8144 |
| Mobile | 2.3386 | 2.0558 | 19.5685 | 0.0436 | 5.4183 | 0.0277 | 5.4460 | 1.4433 | 0.0258 | 1.4691 | | 4,691.1966 | 4,691.1966 | 0.2562 | 0.1956 | 4,755.9015 |
| **Total** | **6.8362** | **2.2818** | **31.9320** | **0.0448** | **5.4183** | **0.1022** | **5.5205** | **1.4433** | **0.1004** | **1.5436** | **0.0000** | **4,814.5549** | **4,814.5549** | **0.2794** | **0.1975** | **4,880.3929** |

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 6/1/2022 | 7/28/2022 | 6 | 50 | |
| 2 | Site Preparation | Site Preparation | 7/29/2022 | 8/3/2022 | 6 | 5 | |
| 3 | Grading | Grading | 8/4/2022 | 8/20/2022 | 6 | 15 | |
| 4 | Trenching | Trenching | 8/22/2022 | 11/22/2022 | 6 | 80 | |
| 5 | Building Construction | Building Construction | 11/23/2022 | 6/8/2023 | 6 | 170 | |
| 6 | Architectural Coating | Architectural Coating | 4/18/2023 | 10/20/2023 | 6 | 160 | |
| 7 | Paving | Paving | 10/21/2023 | 12/29/2023 | 6 | 60 | |

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 22.5**

**Acres of Paving: 0**

**Residential Indoor: 301,725; Residential Outdoor: 100,575; Non-Residential Indoor: 21,543; Non-Residential Outdoor: 7,181; Striped Parking Area: 864 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 0 | 0.00 | 81 | 0.73 |
| Demolition | Excavators | 2 | 8.00 | 158 | 0.38 |
| Demolition | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |

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

| | | | | | |
|---|---|---|---|---|---|
| Demolition | Skid Steer Loaders | 6 | 8.00 | 65 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 0 | 8.00 | 158 | 0.38 |
| Grading | Graders | 2 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Trenching | Excavators | 2 | 8.00 | 158 | 0.38 |
| Trenching | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 0 | 0.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 0 | 0.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 4 | 8.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 0 | 0.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 0 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 10 | 25.00 | 0.00 | 404.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 5 | 13.00 | 0.00 | 438.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Trenching | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Building Construction | 7 | 118.00 | 21.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 4 | 24.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Demolition - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.7480 | 0.0000 | 1.7480 | 0.2647 | 0.0000 | 0.2647 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.7732 | 18.9741 | 19.5692 | 0.0328 | | 0.8661 | 0.8661 | | 0.7968 | 0.7968 | | 3,177.4443 | 3,177.4443 | 1.0277 | | 3,203.1355 |
| **Total** | **1.7732** | **18.9741** | **19.5692** | **0.0328** | **1.7480** | **0.8661** | **2.6141** | **0.2647** | **0.7968** | **1.0615** | | **3,177.4443** | **3,177.4443** | **1.0277** | | **3,203.1355** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.2 Demolition - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0321 | 1.1021 | 0.2561 | 4.1400e-003 | 0.1131 | 0.0100 | 0.1231 | 0.0310 | 9.5700e-003 | 0.0406 | | 451.0394 | 451.0394 | 0.0148 | 0.0714 | 472.6979 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0727 | 0.0439 | 0.6463 | 1.8400e-003 | 0.2054 | 1.0700e-003 | 0.2064 | 0.0545 | 9.9000e-004 | 0.0555 | | 187.0157 | 187.0157 | 5.1000e-003 | 4.6600e-003 | 188.5329 |
| **Total** | **0.1048** | **1.1459** | **0.9024** | **5.9800e-003** | **0.3185** | **0.0111** | **0.3295** | **0.0855** | **0.0106** | **0.0960** | | **638.0551** | **638.0551** | **0.0199** | **0.0761** | **661.2308** |

### 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 | | | | | 0.7866 | 0.0000 | 0.7866 | 0.1191 | 0.0000 | 0.1191 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.7732 | 18.9741 | 19.5692 | 0.0328 | | 0.1299 | 0.1299 | | 0.1195 | 0.1195 | 0.0000 | 3,177.4443 | 3,177.4443 | 1.0277 | | 3,203.1355 |
| **Total** | **1.7732** | **18.9741** | **19.5692** | **0.0328** | **0.7866** | **0.1299** | **0.9165** | **0.1191** | **0.1195** | **0.2386** | **0.0000** | **3,177.4443** | **3,177.4443** | **1.0277** | | **3,203.1355** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.2 Demolition - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0321 | 1.1021 | 0.2561 | 4.1400e-003 | 0.1131 | 0.0100 | 0.1231 | 0.0310 | 9.5700e-003 | 0.0406 | | 451.0394 | 451.0394 | 0.0148 | 0.0714 | 472.6979 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0727 | 0.0439 | 0.6463 | 1.8400e-003 | 0.2054 | 1.0700e-003 | 0.2064 | 0.0545 | 9.9000e-004 | 0.0555 | | 187.0157 | 187.0157 | 5.1000e-003 | 4.6600e-003 | 188.5329 |
| **Total** | **0.1048** | **1.1459** | **0.9024** | **5.9800e-003** | **0.3185** | **0.0111** | **0.3295** | **0.0855** | **0.0106** | **0.0960** | | **638.0551** | **638.0551** | **0.0199** | **0.0761** | **661.2308** |

## 3.3 Site Preparation - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1665 | 12.1449 | 8.0579 | 0.0148 | | 0.5976 | 0.5976 | | 0.5498 | 0.5498 | | 1,429.5133 | 1,429.5133 | 0.4623 | | 1,441.0716 |
| **Total** | **1.1665** | **12.1449** | **8.0579** | **0.0148** | **6.5523** | **0.5976** | **7.1499** | **3.3675** | **0.5498** | **3.9173** | | **1,429.5133** | **1,429.5133** | **0.4623** | | **1,441.0716** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.3 Site Preparation - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0233 | 0.0140 | 0.2068 | 5.9000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.2000e-004 | 0.0178 | | 59.8450 | 59.8450 | 1.6300e-003 | 1.4900e-003 | 60.3305 |
| **Total** | **0.0233** | **0.0140** | **0.2068** | **5.9000e-004** | **0.0657** | **3.4000e-004** | **0.0661** | **0.0174** | **3.2000e-004** | **0.0178** | | **59.8450** | **59.8450** | **1.6300e-003** | **1.4900e-003** | **60.3305** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.9486 | 0.0000 | 2.9486 | 1.5154 | 0.0000 | 1.5154 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1665 | 12.1449 | 8.0579 | 0.0148 | | 0.0896 | 0.0896 | | 0.0825 | 0.0825 | 0.0000 | 1,429.5133 | 1,429.5133 | 0.4623 | | 1,441.0716 |
| **Total** | **1.1665** | **12.1449** | **8.0579** | **0.0148** | **2.9486** | **0.0896** | **3.0382** | **1.5154** | **0.0825** | **1.5978** | **0.0000** | **1,429.5133** | **1,429.5133** | **0.4623** | | **1,441.0716** |

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

## 3.3 Site Preparation - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0233 | 0.0140 | 0.2068 | 5.9000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.2000e-004 | 0.0178 | | 59.8450 | 59.8450 | 1.6300e-003 | 1.4900e-003 | 60.3305 |
| **Total** | **0.0233** | **0.0140** | **0.2068** | **5.9000e-004** | **0.0657** | **3.4000e-004** | **0.0661** | **0.0174** | **3.2000e-004** | **0.0178** | | **59.8450** | **59.8450** | **1.6300e-003** | **1.4900e-003** | **60.3305** |

## 3.4 Grading - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.6392 | 0.0000 | 7.6392 | 3.4860 | 0.0000 | 3.4860 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9965 | 22.6601 | 11.5014 | 0.0280 | | 0.9320 | 0.9320 | | 0.8575 | 0.8575 | | 2,712.0711 | 2,712.0711 | 0.8771 | | 2,733.9996 |
| **Total** | **1.9965** | **22.6601** | **11.5014** | **0.0280** | **7.6392** | **0.9320** | **8.5712** | **3.4860** | **0.8575** | **4.3434** | | **2,712.0711** | **2,712.0711** | **0.8771** | | **2,733.9996** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.4 Grading - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.1159 | 3.9827 | 0.9256 | 0.0150 | 0.4087 | 0.0361 | 0.4448 | 0.1120 | 0.0346 | 0.1466 | | 1,629.9939 | 1,629.9939 | 0.0536 | 0.2582 | 1,708.2648 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0378 | 0.0228 | 0.3361 | 9.6000e-004 | 0.1068 | 5.6000e-004 | 0.1074 | 0.0283 | 5.1000e-004 | 0.0288 | | 97.2482 | 97.2482 | 2.6500e-003 | 2.4200e-003 | 98.0371 |
| **Total** | **0.1537** | **4.0055** | **1.2616** | **0.0159** | **0.5155** | **0.0367** | **0.5522** | **0.1404** | **0.0351** | **0.1754** | | **1,727.2421** | **1,727.2421** | **0.0563** | **0.2606** | **1,806.3019** |

### 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 | | | | | 3.4377 | 0.0000 | 3.4377 | 1.5687 | 0.0000 | 1.5687 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9965 | 22.6601 | 11.5014 | 0.0280 | | 0.1398 | 0.1398 | | 0.1286 | 0.1286 | 0.0000 | 2,712.0711 | 2,712.0711 | 0.8771 | | 2,733.9996 |
| **Total** | **1.9965** | **22.6601** | **11.5014** | **0.0280** | **3.4377** | **0.1398** | **3.5775** | **1.5687** | **0.1286** | **1.6973** | **0.0000** | **2,712.0711** | **2,712.0711** | **0.8771** | | **2,733.9996** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.4 Grading - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.1159 | 3.9827 | 0.9256 | 0.0150 | 0.4087 | 0.0361 | 0.4448 | 0.1120 | 0.0346 | 0.1466 | | 1,629.9939 | 1,629.9939 | 0.0536 | 0.2582 | 1,708.2648 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0378 | 0.0228 | 0.3361 | 9.6000e-004 | 0.1068 | 5.6000e-004 | 0.1074 | 0.0283 | 5.1000e-004 | 0.0288 | | 97.2482 | 97.2482 | 2.6500e-003 | 2.4200e-003 | 98.0371 |
| **Total** | **0.1537** | **4.0055** | **1.2616** | **0.0159** | **0.5155** | **0.0367** | **0.5522** | **0.1404** | **0.0351** | **0.1754** | | **1,727.2421** | **1,727.2421** | **0.0563** | **0.2606** | **1,806.3019** |

## 3.5 Trenching - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0637 | 10.2565 | 15.4621 | 0.0228 | | 0.5323 | 0.5323 | | 0.4897 | 0.4897 | | 2,204.9863 | 2,204.9863 | 0.7131 | | 2,222.8148 |
| **Total** | **1.0637** | **10.2565** | **15.4621** | **0.0228** | | **0.5323** | **0.5323** | | **0.4897** | **0.4897** | | **2,204.9863** | **2,204.9863** | **0.7131** | | **2,222.8148** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.5 Trenching - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0436 | 0.0263 | 0.3878 | 1.1000e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.9000e-004 | 0.0333 | | 112.2095 | 112.2095 | 3.0600e-003 | 2.8000e-003 | 113.1197 |
| **Total** | **0.0436** | **0.0263** | **0.3878** | **1.1000e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.9000e-004** | **0.0333** | | **112.2095** | **112.2095** | **3.0600e-003** | **2.8000e-003** | **113.1197** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0637 | 10.2565 | 15.4621 | 0.0228 | | 0.0799 | 0.0799 | | 0.0735 | 0.0735 | 0.0000 | 2,204.9863 | 2,204.9863 | 0.7131 | | 2,222.8148 |
| **Total** | **1.0637** | **10.2565** | **15.4621** | **0.0228** | | **0.0799** | **0.0799** | | **0.0735** | **0.0735** | **0.0000** | **2,204.9863** | **2,204.9863** | **0.7131** | | **2,222.8148** |

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

## 3.5 Trenching - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0436 | 0.0263 | 0.3878 | 1.1000e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.9000e-004 | 0.0333 | | 112.2095 | 112.2095 | 3.0600e-003 | 2.8000e-003 | 113.1197 |
| **Total** | **0.0436** | **0.0263** | **0.3878** | **1.1000e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.9000e-004** | **0.0333** | | **112.2095** | **112.2095** | **3.0600e-003** | **2.8000e-003** | **113.1197** |

## 3.6 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1628 | 10.2753 | 12.9551 | 0.0181 | | 0.5641 | 0.5641 | | 0.5241 | 0.5241 | | 1,708.4952 | 1,708.4952 | 0.5103 | | 1,721.2523 |
| **Total** | **1.1628** | **10.2753** | **12.9551** | **0.0181** | | **0.5641** | **0.5641** | | **0.5241** | **0.5241** | | **1,708.4952** | **1,708.4952** | **0.5103** | | **1,721.2523** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.6 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0453 | 1.1328 | 0.3365 | 4.4500e-003 | 0.1422 | 0.0121 | 0.1543 | 0.0409 | 0.0115 | 0.0525 | | 476.6703 | 476.6703 | 0.0104 | 0.0706 | 497.9775 |
| Worker | 0.3433 | 0.2070 | 3.0505 | 8.6800e-003 | 0.9693 | 5.0700e-003 | 0.9744 | 0.2571 | 4.6600e-003 | 0.2618 | | 882.7143 | 882.7143 | 0.0241 | 0.0220 | 889.8751 |
| **Total** | **0.3886** | **1.3398** | **3.3870** | **0.0131** | **1.1116** | **0.0171** | **1.1287** | **0.2981** | **0.0162** | **0.3143** | | **1,359.3846** | **1,359.3846** | **0.0344** | **0.0926** | **1,387.8526** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1628 | 10.2753 | 12.9551 | 0.0181 | | 0.0846 | 0.0846 | | 0.0786 | 0.0786 | 0.0000 | 1,708.4952 | 1,708.4952 | 0.5103 | | 1,721.2523 |
| **Total** | **1.1628** | **10.2753** | **12.9551** | **0.0181** | | **0.0846** | **0.0846** | | **0.0786** | **0.0786** | **0.0000** | **1,708.4952** | **1,708.4952** | **0.5103** | | **1,721.2523** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.6 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0453 | 1.1328 | 0.3365 | 4.4500e-003 | 0.1422 | 0.0121 | 0.1543 | 0.0409 | 0.0115 | 0.0525 | | 476.6703 | 476.6703 | 0.0104 | 0.0706 | 497.9775 |
| Worker | 0.3433 | 0.2070 | 3.0505 | 8.6800e-003 | 0.9693 | 5.0700e-003 | 0.9744 | 0.2571 | 4.6600e-003 | 0.2618 | | 882.7143 | 882.7143 | 0.0241 | 0.0220 | 889.8751 |
| **Total** | **0.3886** | **1.3398** | **3.3870** | **0.0131** | **1.1116** | **0.0171** | **1.1287** | **0.2981** | **0.0162** | **0.3143** | | **1,359.3846** | **1,359.3846** | **0.0344** | **0.0926** | **1,387.8526** |

## 3.6 Building Construction - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0650 | 9.4826 | 12.8928 | 0.0181 | | 0.4770 | 0.4770 | | 0.4432 | 0.4432 | | 1,709.8454 | 1,709.8454 | 0.5085 | | 1,722.5587 |
| **Total** | **1.0650** | **9.4826** | **12.8928** | **0.0181** | | **0.4770** | **0.4770** | | **0.4432** | **0.4432** | | **1,709.8454** | **1,709.8454** | **0.5085** | | **1,722.5587** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.6 Building Construction - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0229 | 0.9007 | 0.2876 | 4.2600e-003 | 0.1422 | 5.4500e-003 | 0.1477 | 0.0409 | 5.2200e-003 | 0.0462 | | 456.6682 | 456.6682 | 9.3500e-003 | 0.0675 | 477.0198 |
| Worker | 0.3192 | 0.1833 | 2.8208 | 8.4000e-003 | 0.9693 | 4.8100e-003 | 0.9742 | 0.2571 | 4.4300e-003 | 0.2615 | | 860.0370 | 860.0370 | 0.0217 | 0.0204 | 866.6595 |
| **Total** | **0.3420** | **1.0841** | **3.1085** | **0.0127** | **1.1116** | **0.0103** | **1.1218** | **0.2981** | **9.6500e-003** | **0.3077** | | **1,316.7052** | **1,316.7052** | **0.0310** | **0.0879** | **1,343.6793** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0650 | 9.4826 | 12.8928 | 0.0181 | | 0.0716 | 0.0716 | | 0.0665 | 0.0665 | 0.0000 | 1,709.8454 | 1,709.8454 | 0.5085 | | 1,722.5587 |
| **Total** | **1.0650** | **9.4826** | **12.8928** | **0.0181** | | **0.0716** | **0.0716** | | **0.0665** | **0.0665** | **0.0000** | **1,709.8454** | **1,709.8454** | **0.5085** | | **1,722.5587** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.6 Building Construction - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0229 | 0.9007 | 0.2876 | 4.2600e-003 | 0.1422 | 5.4500e-003 | 0.1477 | 0.0409 | 5.2200e-003 | 0.0462 | | 456.6682 | 456.6682 | 9.3500e-003 | 0.0675 | 477.0198 |
| Worker | 0.3192 | 0.1833 | 2.8208 | 8.4000e-003 | 0.9693 | 4.8100e-003 | 0.9742 | 0.2571 | 4.4300e-003 | 0.2615 | | 860.0370 | 860.0370 | 0.0217 | 0.0204 | 866.6595 |
| **Total** | **0.3420** | **1.0841** | **3.1085** | **0.0127** | **1.1116** | **0.0103** | **1.1218** | **0.2981** | **9.6500e-003** | **0.3077** | | **1,316.7052** | **1,316.7052** | **0.0310** | **0.0879** | **1,343.6793** |

## 3.7 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 12.5113 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0222 | 6.9493 | 9.6593 | 0.0159 | | 0.3777 | 0.3777 | | 0.3777 | 0.3777 | | 1,501.0563 | 1,501.0563 | 0.0898 | | 1,503.3014 |
| **Total** | **13.5335** | **6.9493** | **9.6593** | **0.0159** | | **0.3777** | **0.3777** | | **0.3777** | **0.3777** | | **1,501.0563** | **1,501.0563** | **0.0898** | | **1,503.3014** |

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

## 3.7 Architectural Coating - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0649 | 0.0373 | 0.5737 | 1.7100e-003 | 0.1972 | 9.8000e-004 | 0.1981 | 0.0523 | 9.0000e-004 | 0.0532 | | 174.9228 | 174.9228 | 4.4100e-003 | 4.1500e-003 | 176.2697 |
| **Total** | **0.0649** | **0.0373** | **0.5737** | **1.7100e-003** | **0.1972** | **9.8000e-004** | **0.1981** | **0.0523** | **9.0000e-004** | **0.0532** | | **174.9228** | **174.9228** | **4.4100e-003** | **4.1500e-003** | **176.2697** |

### 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 | 12.5113 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0222 | 6.9493 | 9.6593 | 0.0159 | | 0.0567 | 0.0567 | | 0.0567 | 0.0567 | 0.0000 | 1,501.0563 | 1,501.0563 | 0.0898 | | 1,503.3014 |
| **Total** | **13.5335** | **6.9493** | **9.6593** | **0.0159** | | **0.0567** | **0.0567** | | **0.0567** | **0.0567** | **0.0000** | **1,501.0563** | **1,501.0563** | **0.0898** | | **1,503.3014** |

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

## 3.7 Architectural Coating - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0649 | 0.0373 | 0.5737 | 1.7100e-003 | 0.1972 | 9.8000e-004 | 0.1981 | 0.0523 | 9.0000e-004 | 0.0532 | | 174.9228 | 174.9228 | 4.4100e-003 | 4.1500e-003 | 176.2697 |
| **Total** | **0.0649** | **0.0373** | **0.5737** | **1.7100e-003** | **0.1972** | **9.8000e-004** | **0.1981** | **0.0523** | **9.0000e-004** | **0.0532** | | **174.9228** | **174.9228** | **4.4100e-003** | **4.1500e-003** | **176.2697** |

## 3.8 Paving - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5164 | 5.0958 | 7.2921 | 0.0114 | | 0.2551 | 0.2551 | | 0.2347 | 0.2347 | | 1,103.7921 | 1,103.7921 | 0.3570 | | 1,112.7168 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.5164** | **5.0958** | **7.2921** | **0.0114** | | **0.2551** | **0.2551** | | **0.2347** | **0.2347** | | **1,103.7921** | **1,103.7921** | **0.3570** | | **1,112.7168** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 3.8 Paving - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0216 | 0.0124 | 0.1912 | 5.7000e-004 | 0.0657 | 3.3000e-004 | 0.0660 | 0.0174 | 3.0000e-004 | 0.0177 | | 58.3076 | 58.3076 | 1.4700e-003 | 1.3800e-003 | 58.7566 |
| **Total** | **0.0216** | **0.0124** | **0.1912** | **5.7000e-004** | **0.0657** | **3.3000e-004** | **0.0660** | **0.0174** | **3.0000e-004** | **0.0177** | | **58.3076** | **58.3076** | **1.4700e-003** | **1.3800e-003** | **58.7566** |

### 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 | 0.5164 | 5.0958 | 7.2921 | 0.0114 | | 0.0383 | 0.0383 | | 0.0352 | 0.0352 | 0.0000 | 1,103.7921 | 1,103.7921 | 0.3570 | | 1,112.7168 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.5164** | **5.0958** | **7.2921** | **0.0114** | | **0.0383** | **0.0383** | | **0.0352** | **0.0352** | **0.0000** | **1,103.7921** | **1,103.7921** | **0.3570** | | **1,112.7168** |

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

### 3.8 Paving - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0216 | 0.0124 | 0.1912 | 5.7000e-004 | 0.0657 | 3.3000e-004 | 0.0660 | 0.0174 | 3.0000e-004 | 0.0177 | | 58.3076 | 58.3076 | 1.4700e-003 | 1.3800e-003 | 58.7566 |
| **Total** | **0.0216** | **0.0124** | **0.1912** | **5.7000e-004** | **0.0657** | **3.3000e-004** | **0.0660** | **0.0174** | **3.0000e-004** | **0.0177** | | **58.3076** | **58.3076** | **1.4700e-003** | **1.3800e-003** | **58.7566** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.3386 | 2.0558 | 19.5685 | 0.0436 | 5.4183 | 0.0277 | 5.4460 | 1.4433 | 0.0258 | 1.4691 | | 4,691.1966 | 4,691.1966 | 0.2562 | 0.1956 | 4,755.9015 |
| Unmitigated | 2.3386 | 2.0558 | 19.5685 | 0.0436 | 5.4183 | 0.0277 | 5.4460 | 1.4433 | 0.0258 | 1.4691 | | 4,691.1966 | 4,691.1966 | 0.2562 | 0.1956 | 4,755.9015 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 281.25 | 368.25 | 306.75 | 686,696 | 686,696 |
| Condo/Townhouse High Rise | 532.80 | 363.34 | 302.66 | 1,098,713 | 1,098,713 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Research & Development | 122.30 | 22.34 | 13.05 | 231,619 | 231,619 |
| Strip Mall | 120.90 | 109.30 | 53.12 | 168,726 | 168,726 |
| Total | 1,057.25 | 863.24 | 675.58 | 2,185,755 | 2,185,755 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Condo/Townhouse High Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Research & Development | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Strip Mall | 9.50 | 7.30 | 7.30 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

## 4.4 Fleet Mix

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

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Condo/Townhouse High Rise | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Parking Lot | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Research & Development | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Strip Mall | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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 | 9.2800e-003 | 0.0843 | 0.0709 | 5.1000e-004 | | 6.4100e-003 | 6.4100e-003 | | 6.4100e-003 | 6.4100e-003 | | 101.2129 | 101.2129 | 1.9400e-003 | 1.8600e-003 | 101.8144 |
| NaturalGas Unmitigated | 9.2800e-003 | 0.0843 | 0.0709 | 5.1000e-004 | | 6.4100e-003 | 6.4100e-003 | | 6.4100e-003 | 6.4100e-003 | | 101.2129 | 101.2129 | 1.9400e-003 | 1.8600e-003 | 101.8144 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 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 |
| 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 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 843.642 | 9.1000e-003 | 0.0827 | 0.0695 | 5.0000e-004 | | 6.2900e-003 | 6.2900e-003 | | 6.2900e-003 | 6.2900e-003 | | 99.2520 | 99.2520 | 1.9000e-003 | 1.8200e-003 | 99.8418 |
| Strip Mall | 16.6685 | 1.8000e-004 | 1.6300e-003 | 1.3700e-003 | 1.0000e-005 | | 1.2000e-004 | 1.2000e-004 | | 1.2000e-004 | 1.2000e-004 | | 1.9610 | 1.9610 | 4.0000e-005 | 4.0000e-005 | 1.9727 |
| **Total** | | **9.2800e-003** | **0.0843** | **0.0709** | **5.1000e-004** | | **6.4100e-003** | **6.4100e-003** | | **6.4100e-003** | **6.4100e-003** | | **101.2130** | **101.2130** | **1.9400e-003** | **1.8600e-003** | **101.8144** |

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 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 |
| 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 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 0.843642 | 9.1000e-003 | 0.0827 | 0.0695 | 5.0000e-004 | | 6.2900e-003 | 6.2900e-003 | | 6.2900e-003 | 6.2900e-003 | | 99.2520 | 99.2520 | 1.9000e-003 | 1.8200e-003 | 99.8418 |
| Strip Mall | 0.0166685 | 1.8000e-004 | 1.6300e-003 | 1.3700e-003 | 1.0000e-005 | | 1.2000e-004 | 1.2000e-004 | | 1.2000e-004 | 1.2000e-004 | | 1.9610 | 1.9610 | 4.0000e-005 | 4.0000e-005 | 1.9727 |
| **Total** | | **9.2800e-003** | **0.0843** | **0.0709** | **5.1000e-004** | | **6.4100e-003** | **6.4100e-003** | | **6.4100e-003** | **6.4100e-003** | | **101.2130** | **101.2130** | **1.9400e-003** | **1.8600e-003** | **101.8144** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

No Hearths Installed

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 4.4884 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | 0.0000 | 22.1453 | 22.1453 | 0.0213 | 0.0000 | 22.6770 |
| Unmitigated | 4.4884 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | 0.0000 | 22.1453 | 22.1453 | 0.0213 | 0.0000 | 22.6770 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.6174 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5011 | | | | | 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 | 0.3699 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | | 22.1453 | 22.1453 | 0.0213 | | 22.6770 |
| **Total** | **4.4884** | **0.1416** | **12.2927** | **6.5000e-004** | | **0.0681** | **0.0681** | | **0.0681** | **0.0681** | **0.0000** | **22.1453** | **22.1453** | **0.0213** | **0.0000** | **22.6770** |

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.6174 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5011 | | | | | 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 | 0.3699 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | | 22.1453 | 22.1453 | 0.0213 | | 22.6770 |
| **Total** | **4.4884** | **0.1416** | **12.2927** | **6.5000e-004** | | **0.0681** | **0.0681** | | **0.0681** | **0.0681** | **0.0000** | **22.1453** | **22.1453** | **0.0213** | **0.0000** | **22.6770** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Summer

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

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## 10.0 Stationary Equipment

**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

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

# 200 Portage Avenue AQ Alternative 3

**Bay Area AQMD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Research & Development | 11.76 | 1000sqft | 0.00 | 11,762.00 | 0 |
| Parking Lot | 36.00 | Space | 0.00 | 14,400.00 | 0 |
| Apartments Mid Rise | 75.00 | Dwelling Unit | 0.00 | 75,000.00 | 215 |
| Condo/Townhouse High Rise | 74.00 | Dwelling Unit | 14.23 | 74,000.00 | 212 |
| Strip Mall | 2.60 | 1000sqft | 0.00 | 2,600.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2024 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Based on new R&D replaced auto (11,762sf), new retail (2,600sf), 74 townhomes, and 75 BMR units. Parking assumptions from proposed project.

Construction Phase - Based on proposed project assumptions for a construction schedule of 18 months and 6 days a week.

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Trips and VMT - Hauling trip length based on applicant provided information of 16 miles to Zanker Recycling.

Demolition - Based on Alt 3 demolition info for warehouse, vacant retail, and 3040 Park Blv building.

Grading - Based on proposed project assumptions of 2,000 cubic yards of export and 1,500 cubic yards of import.

Architectural Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Vehicle Trips - Trip gen rate reduced to match W-Trans Transportation Analysis

Woodstoves - BAAQMD Regulation 6 Rule 3, No woodburning devices

Area Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Energy Use - All-electric pursuant to the City's All-Electric Mandate and 2019 Energy Reach Code Ordinances: https://www.cityofpaloalto.org/files/assets/public/development-services/green-building-files/2020-all-electric-mandate-summary_final03.31.2020.pdf?t=58748.46

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

Construction Off-road Equipment Mitigation - Pursuant to Palo Alto Comprehensive Plan Polich N-5.5 and Comprehensive Plan EIR Mitigation Measure AIR-2a, comply with BAAQMD Basic Construction Mitigation Measures. All equipment will be equipped with DPFs according to applicant provided information.

Energy Mitigation - Pursuant to Section 150.1(b)14 of the 2019 Building Energy Efficiency Standards, residential uses under three stories must install PV solar panels that generate an amount of electricity equal to expected electricity usage. Percentage solar for townhomes

Water Mitigation - Pursuant to CalGreen 20 percent reduction in indoor water use.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 150.00 | 100.00 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |

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

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstructionPhase | NumDays | 20.00 | 160.00 |
| tblConstructionPhase | NumDays | 300.00 | 170.00 |
| tblConstructionPhase | NumDays | 20.00 | 50.00 |
| tblConstructionPhase | NumDays | 30.00 | 15.00 |
| tblConstructionPhase | NumDays | 20.00 | 60.00 |
| tblConstructionPhase | NumDays | 10.00 | 5.00 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblEnergyUse | NT24E | 3,054.10 | 6,209.10 |
| tblEnergyUse | NT24E | 3,054.10 | 6,209.10 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | T24E | 70.89 | 1,602.68 |
| tblEnergyUse | T24E | 70.89 | 1,602.68 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 11.25 | 0.00 |
| tblFireplaces | NumberGas | 11.10 | 0.00 |
| tblFireplaces | NumberNoFireplace | 3.00 | 0.00 |
| tblFireplaces | NumberNoFireplace | 2.96 | 0.00 |
| tblFireplaces | NumberWood | 12.75 | 0.00 |
| tblFireplaces | NumberWood | 12.58 | 0.00 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |

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

| | | | |
|---|---|---|---|
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | MCY | 0.03 | 0.03 |

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

| | | | |
|---|---|---|---|
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblGrading | MaterialExported | 0.00 | 2,000.00 |
| tblGrading | MaterialImported | 0.00 | 1,500.00 |
| tblLandUse | LandUseSquareFeet | 11,760.00 | 11,762.00 |
| tblLandUse | LotAcreage | 0.27 | 0.00 |
| tblLandUse | LotAcreage | 0.32 | 0.00 |
| tblLandUse | LotAcreage | 1.97 | 0.00 |
| tblLandUse | LotAcreage | 1.16 | 14.23 |
| tblLandUse | LotAcreage | 0.06 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 0.05 | 0.05 |
| tblVehicleEF | HHD | 6.31 | 6.22 |
| tblVehicleEF | HHD | 0.41 | 0.41 |
| tblVehicleEF | HHD | 6.7080e-003 | 6.5970e-003 |
| tblVehicleEF | HHD | 1,044.30 | 920.46 |
| tblVehicleEF | HHD | 1,409.50 | 1,226.16 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.16 | 0.15 |
| tblVehicleEF | HHD | 0.22 | 0.19 |
| tblVehicleEF | HHD | 6.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 5.37 | 5.15 |
| tblVehicleEF | HHD | 2.68 | 2.51 |
| tblVehicleEF | HHD | 2.34 | 2.35 |
| tblVehicleEF | HHD | 2.6250e-003 | 2.1390e-003 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.04 | 0.04 |
| tblVehicleEF | HHD | 0.02 | 0.02 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 2.5120e-003 | 2.0460e-003 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 8.8720e-003 | 8.8850e-003 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 2.0000e-006 | 1.0000e-006 |
| tblVehicleEF | HHD | 1.1000e-004 | 7.1000e-005 |
| tblVehicleEF | HHD | 0.43 | 0.42 |
| tblVehicleEF | HHD | 0.03 | 0.02 |
| tblVehicleEF | HHD | 5.0000e-005 | 3.2000e-005 |
| tblVehicleEF | HHD | 9.7210e-003 | 8.5600e-003 |
| tblVehicleEF | HHD | 0.01 | 0.01 |
| tblVehicleEF | HHD | 2.0000e-006 | 1.0000e-006 |
| tblVehicleEF | HHD | 1.1000e-004 | 7.1000e-005 |
| tblVehicleEF | HHD | 0.49 | 0.48 |
| tblVehicleEF | HHD | 0.08 | 0.07 |
| tblVehicleEF | HHD | 5.0000e-005 | 3.2000e-005 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 0.05 | 0.05 |
| tblVehicleEF | HHD | 6.22 | 6.14 |
| tblVehicleEF | HHD | 0.41 | 0.41 |
| tblVehicleEF | HHD | 6.1240e-003 | 6.0260e-003 |
| tblVehicleEF | HHD | 1,032.50 | 909.37 |
| tblVehicleEF | HHD | 1,409.50 | 1,226.17 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.16 | 0.14 |
| tblVehicleEF | HHD | 0.22 | 0.19 |
| tblVehicleEF | HHD | 6.0000e-006 | 1.0000e-006 |
| tblVehicleEF | HHD | 5.14 | 4.91 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 2.58 | 2.41 |
| tblVehicleEF | HHD | 2.34 | 2.35 |
| tblVehicleEF | HHD | 2.2960e-003 | 1.8850e-003 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.04 | 0.04 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 2.1970e-003 | 1.8030e-003 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 8.8720e-003 | 8.8850e-003 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 6.0000e-006 | 3.0000e-006 |
| tblVehicleEF | HHD | 1.2000e-004 | 7.6000e-005 |
| tblVehicleEF | HHD | 0.45 | 0.44 |
| tblVehicleEF | HHD | 3.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 0.03 | 0.02 |
| tblVehicleEF | HHD | 4.9000e-005 | 3.1000e-005 |
| tblVehicleEF | HHD | 9.6110e-003 | 8.4570e-003 |
| tblVehicleEF | HHD | 0.01 | 0.01 |
| tblVehicleEF | HHD | 6.0000e-006 | 3.0000e-006 |
| tblVehicleEF | HHD | 1.2000e-004 | 7.6000e-005 |
| tblVehicleEF | HHD | 0.52 | 0.51 |
| tblVehicleEF | HHD | 3.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 0.08 | 0.07 |
| tblVehicleEF | HHD | 4.9000e-005 | 3.1000e-005 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 0.05 | 0.05 |
| tblVehicleEF | HHD | 6.43 | 6.34 |
| tblVehicleEF | HHD | 0.41 | 0.41 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 7.2200e-003 | 7.0940e-003 |
| tblVehicleEF | HHD | 1,060.60 | 935.76 |
| tblVehicleEF | HHD | 1,409.50 | 1,226.16 |
| tblVehicleEF | HHD | 0.07 | 0.06 |
| tblVehicleEF | HHD | 0.17 | 0.15 |
| tblVehicleEF | HHD | 0.22 | 0.19 |
| tblVehicleEF | HHD | 7.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 5.70 | 5.48 |
| tblVehicleEF | HHD | 2.72 | 2.55 |
| tblVehicleEF | HHD | 2.34 | 2.35 |
| tblVehicleEF | HHD | 3.0800e-003 | 2.4890e-003 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.04 | 0.04 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 2.9470e-003 | 2.3820e-003 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 8.8720e-003 | 8.8850e-003 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 1.1900e-004 | 7.4000e-005 |
| tblVehicleEF | HHD | 0.39 | 0.38 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 0.03 | 0.02 |
| tblVehicleEF | HHD | 5.5000e-005 | 3.6000e-005 |
| tblVehicleEF | HHD | 9.8740e-003 | 8.7030e-003 |
| tblVehicleEF | HHD | 0.01 | 0.01 |
| tblVehicleEF | HHD | 1.1900e-004 | 7.4000e-005 |
| tblVehicleEF | HHD | 0.45 | 0.44 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 0.08 | 0.07 |
| tblVehicleEF | HHD | 5.5000e-005 | 3.6000e-005 |
| tblVehicleEF | LDA | 1.8030e-003 | 9.9700e-004 |
| tblVehicleEF | LDA | 0.05 | 0.03 |
| tblVehicleEF | LDA | 0.53 | 0.41 |
| tblVehicleEF | LDA | 2.14 | 1.75 |
| tblVehicleEF | LDA | 243.15 | 216.43 |
| tblVehicleEF | LDA | 51.36 | 45.51 |
| tblVehicleEF | LDA | 4.0780e-003 | 3.2370e-003 |
| tblVehicleEF | LDA | 0.02 | 0.02 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.17 | 0.13 |
| tblVehicleEF | LDA | 1.3590e-003 | 9.5700e-004 |
| tblVehicleEF | LDA | 1.7100e-003 | 1.3050e-003 |
| tblVehicleEF | LDA | 1.2520e-003 | 8.8100e-004 |
| tblVehicleEF | LDA | 1.5720e-003 | 1.2000e-003 |
| tblVehicleEF | LDA | 0.04 | 0.02 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 6.8130e-003 | 3.4110e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.20 | 0.12 |
| tblVehicleEF | LDA | 2.3570e-003 | 2.0020e-003 |
| tblVehicleEF | LDA | 4.9800e-004 | 4.2100e-004 |
| tblVehicleEF | LDA | 0.04 | 0.02 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 9.8980e-003 | 4.9540e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDA | 0.22 | 0.14 |
| tblVehicleEF | LDA | 2.0410e-003 | 1.1320e-003 |
| tblVehicleEF | LDA | 0.04 | 0.03 |
| tblVehicleEF | LDA | 0.62 | 0.48 |
| tblVehicleEF | LDA | 1.67 | 1.37 |
| tblVehicleEF | LDA | 261.90 | 233.11 |
| tblVehicleEF | LDA | 50.46 | 44.78 |
| tblVehicleEF | LDA | 3.8010e-003 | 3.0210e-003 |
| tblVehicleEF | LDA | 0.02 | 0.02 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.15 | 0.11 |
| tblVehicleEF | LDA | 1.3590e-003 | 9.5700e-004 |
| tblVehicleEF | LDA | 1.7100e-003 | 1.3050e-003 |
| tblVehicleEF | LDA | 1.2520e-003 | 8.8100e-004 |
| tblVehicleEF | LDA | 1.5720e-003 | 1.2000e-003 |
| tblVehicleEF | LDA | 0.08 | 0.06 |
| tblVehicleEF | LDA | 0.10 | 0.07 |
| tblVehicleEF | LDA | 0.07 | 0.05 |
| tblVehicleEF | LDA | 7.5810e-003 | 3.7980e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.17 | 0.10 |
| tblVehicleEF | LDA | 2.5390e-003 | 2.1560e-003 |
| tblVehicleEF | LDA | 4.8900e-004 | 4.1400e-004 |
| tblVehicleEF | LDA | 0.08 | 0.06 |
| tblVehicleEF | LDA | 0.10 | 0.07 |
| tblVehicleEF | LDA | 0.07 | 0.05 |
| tblVehicleEF | LDA | 0.01 | 5.5180e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.18 | 0.11 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDA | 1.7350e-003 | 9.5900e-004 |
| tblVehicleEF | LDA | 0.05 | 0.03 |
| tblVehicleEF | LDA | 0.52 | 0.40 |
| tblVehicleEF | LDA | 2.51 | 2.05 |
| tblVehicleEF | LDA | 240.83 | 214.36 |
| tblVehicleEF | LDA | 52.04 | 46.06 |
| tblVehicleEF | LDA | 4.3320e-003 | 3.4360e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.19 | 0.14 |
| tblVehicleEF | LDA | 1.3590e-003 | 9.5700e-004 |
| tblVehicleEF | LDA | 1.7100e-003 | 1.3050e-003 |
| tblVehicleEF | LDA | 1.2520e-003 | 8.8100e-004 |
| tblVehicleEF | LDA | 1.5720e-003 | 1.2000e-003 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 6.6420e-003 | 3.3230e-003 |
| tblVehicleEF | LDA | 0.03 | 0.03 |
| tblVehicleEF | LDA | 0.23 | 0.14 |
| tblVehicleEF | LDA | 2.3340e-003 | 1.9830e-003 |
| tblVehicleEF | LDA | 5.0500e-004 | 4.2600e-004 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 9.6480e-003 | 4.8250e-003 |
| tblVehicleEF | LDA | 0.03 | 0.03 |
| tblVehicleEF | LDA | 0.25 | 0.15 |
| tblVehicleEF | LDT1 | 3.5970e-003 | 1.6590e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT1 | 0.06 | 0.04 |
| tblVehicleEF | LDT1 | 0.83 | 0.53 |
| tblVehicleEF | LDT1 | 2.33 | 1.89 |
| tblVehicleEF | LDT1 | 290.85 | 261.54 |
| tblVehicleEF | LDT1 | 62.04 | 55.47 |
| tblVehicleEF | LDT1 | 5.8260e-003 | 3.7700e-003 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.07 | 0.03 |
| tblVehicleEF | LDT1 | 0.22 | 0.16 |
| tblVehicleEF | LDT1 | 1.6800e-003 | 1.0980e-003 |
| tblVehicleEF | LDT1 | 2.1590e-003 | 1.5030e-003 |
| tblVehicleEF | LDT1 | 1.5460e-003 | 1.0100e-003 |
| tblVehicleEF | LDT1 | 1.9850e-003 | 1.3820e-003 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.15 | 0.10 |
| tblVehicleEF | LDT1 | 0.06 | 0.04 |
| tblVehicleEF | LDT1 | 0.02 | 6.4330e-003 |
| tblVehicleEF | LDT1 | 0.08 | 0.06 |
| tblVehicleEF | LDT1 | 0.29 | 0.16 |
| tblVehicleEF | LDT1 | 2.8200e-003 | 2.4180e-003 |
| tblVehicleEF | LDT1 | 6.0100e-004 | 5.1300e-004 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.15 | 0.10 |
| tblVehicleEF | LDT1 | 0.06 | 0.04 |
| tblVehicleEF | LDT1 | 0.02 | 9.3860e-003 |
| tblVehicleEF | LDT1 | 0.08 | 0.06 |
| tblVehicleEF | LDT1 | 0.32 | 0.18 |
| tblVehicleEF | LDT1 | 4.0330e-003 | 1.8690e-003 |
| tblVehicleEF | LDT1 | 0.05 | 0.03 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT1 | 0.97 | 0.62 |
| tblVehicleEF | LDT1 | 1.80 | 1.47 |
| tblVehicleEF | LDT1 | 310.00 | 278.57 |
| tblVehicleEF | LDT1 | 61.02 | 54.67 |
| tblVehicleEF | LDT1 | 5.3700e-003 | 3.4810e-003 |
| tblVehicleEF | LDT1 | 0.02 | 0.02 |
| tblVehicleEF | LDT1 | 0.06 | 0.03 |
| tblVehicleEF | LDT1 | 0.20 | 0.14 |
| tblVehicleEF | LDT1 | 1.6800e-003 | 1.0980e-003 |
| tblVehicleEF | LDT1 | 2.1590e-003 | 1.5030e-003 |
| tblVehicleEF | LDT1 | 1.5460e-003 | 1.0100e-003 |
| tblVehicleEF | LDT1 | 1.9850e-003 | 1.3820e-003 |
| tblVehicleEF | LDT1 | 0.18 | 0.11 |
| tblVehicleEF | LDT1 | 0.17 | 0.11 |
| tblVehicleEF | LDT1 | 0.13 | 0.09 |
| tblVehicleEF | LDT1 | 0.02 | 7.1380e-003 |
| tblVehicleEF | LDT1 | 0.07 | 0.05 |
| tblVehicleEF | LDT1 | 0.24 | 0.13 |
| tblVehicleEF | LDT1 | 3.0050e-003 | 2.5760e-003 |
| tblVehicleEF | LDT1 | 5.9200e-004 | 5.0600e-004 |
| tblVehicleEF | LDT1 | 0.18 | 0.11 |
| tblVehicleEF | LDT1 | 0.17 | 0.11 |
| tblVehicleEF | LDT1 | 0.13 | 0.09 |
| tblVehicleEF | LDT1 | 0.02 | 0.01 |
| tblVehicleEF | LDT1 | 0.07 | 0.05 |
| tblVehicleEF | LDT1 | 0.26 | 0.15 |
| tblVehicleEF | LDT1 | 3.4780e-003 | 1.5990e-003 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.83 | 0.52 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT1 | 2.72 | 2.21 |
| tblVehicleEF | LDT1 | 288.56 | 259.51 |
| tblVehicleEF | LDT1 | 62.81 | 56.08 |
| tblVehicleEF | LDT1 | 6.2230e-003 | 4.0260e-003 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.24 | 0.17 |
| tblVehicleEF | LDT1 | 1.6800e-003 | 1.0980e-003 |
| tblVehicleEF | LDT1 | 2.1590e-003 | 1.5030e-003 |
| tblVehicleEF | LDT1 | 1.5460e-003 | 1.0100e-003 |
| tblVehicleEF | LDT1 | 1.9850e-003 | 1.3820e-003 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.16 | 0.10 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.01 | 6.2720e-003 |
| tblVehicleEF | LDT1 | 0.10 | 0.07 |
| tblVehicleEF | LDT1 | 0.33 | 0.18 |
| tblVehicleEF | LDT1 | 2.7980e-003 | 2.4000e-003 |
| tblVehicleEF | LDT1 | 6.0900e-004 | 5.1900e-004 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.16 | 0.10 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.02 | 9.1510e-003 |
| tblVehicleEF | LDT1 | 0.10 | 0.07 |
| tblVehicleEF | LDT1 | 0.36 | 0.20 |
| tblVehicleEF | LDT2 | 2.8370e-003 | 1.6620e-003 |
| tblVehicleEF | LDT2 | 0.06 | 0.04 |
| tblVehicleEF | LDT2 | 0.70 | 0.54 |
| tblVehicleEF | LDT2 | 2.73 | 2.32 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT2 | 309.94 | 268.87 |
| tblVehicleEF | LDT2 | 66.52 | 57.46 |
| tblVehicleEF | LDT2 | 5.5470e-003 | 3.9670e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.06 | 0.03 |
| tblVehicleEF | LDT2 | 0.25 | 0.17 |
| tblVehicleEF | LDT2 | 1.3900e-003 | 1.0510e-003 |
| tblVehicleEF | LDT2 | 1.7260e-003 | 1.3650e-003 |
| tblVehicleEF | LDT2 | 1.2790e-003 | 9.6800e-004 |
| tblVehicleEF | LDT2 | 1.5870e-003 | 1.2550e-003 |
| tblVehicleEF | LDT2 | 0.05 | 0.04 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.01 | 6.2280e-003 |
| tblVehicleEF | LDT2 | 0.06 | 0.05 |
| tblVehicleEF | LDT2 | 0.29 | 0.18 |
| tblVehicleEF | LDT2 | 3.0040e-003 | 2.4870e-003 |
| tblVehicleEF | LDT2 | 6.4500e-004 | 5.3100e-004 |
| tblVehicleEF | LDT2 | 0.05 | 0.04 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.02 | 9.0460e-003 |
| tblVehicleEF | LDT2 | 0.06 | 0.05 |
| tblVehicleEF | LDT2 | 0.31 | 0.20 |
| tblVehicleEF | LDT2 | 3.1980e-003 | 1.8780e-003 |
| tblVehicleEF | LDT2 | 0.05 | 0.04 |
| tblVehicleEF | LDT2 | 0.83 | 0.63 |
| tblVehicleEF | LDT2 | 2.12 | 1.80 |
| tblVehicleEF | LDT2 | 328.46 | 284.72 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT2 | 65.35 | 56.49 |
| tblVehicleEF | LDT2 | 5.1490e-003 | 3.6920e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.05 | 0.03 |
| tblVehicleEF | LDT2 | 0.22 | 0.15 |
| tblVehicleEF | LDT2 | 1.3900e-003 | 1.0510e-003 |
| tblVehicleEF | LDT2 | 1.7260e-003 | 1.3650e-003 |
| tblVehicleEF | LDT2 | 1.2790e-003 | 9.6800e-004 |
| tblVehicleEF | LDT2 | 1.5870e-003 | 1.2550e-003 |
| tblVehicleEF | LDT2 | 0.13 | 0.10 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.01 | 6.9100e-003 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.23 | 0.15 |
| tblVehicleEF | LDT2 | 3.1840e-003 | 2.6330e-003 |
| tblVehicleEF | LDT2 | 6.3400e-004 | 5.2200e-004 |
| tblVehicleEF | LDT2 | 0.13 | 0.10 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.02 | 0.01 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.26 | 0.17 |
| tblVehicleEF | LDT2 | 2.7360e-003 | 1.6010e-003 |
| tblVehicleEF | LDT2 | 0.07 | 0.05 |
| tblVehicleEF | LDT2 | 0.70 | 0.53 |
| tblVehicleEF | LDT2 | 3.20 | 2.71 |
| tblVehicleEF | LDT2 | 307.71 | 266.97 |
| tblVehicleEF | LDT2 | 67.39 | 58.20 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT2 | 5.9000e-003 | 4.2130e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.06 | 0.04 |
| tblVehicleEF | LDT2 | 0.27 | 0.18 |
| tblVehicleEF | LDT2 | 1.3900e-003 | 1.0510e-003 |
| tblVehicleEF | LDT2 | 1.7260e-003 | 1.3650e-003 |
| tblVehicleEF | LDT2 | 1.2790e-003 | 9.6800e-004 |
| tblVehicleEF | LDT2 | 1.5870e-003 | 1.2550e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.01 | 6.0730e-003 |
| tblVehicleEF | LDT2 | 0.07 | 0.06 |
| tblVehicleEF | LDT2 | 0.32 | 0.21 |
| tblVehicleEF | LDT2 | 2.9830e-003 | 2.4690e-003 |
| tblVehicleEF | LDT2 | 6.5300e-004 | 5.3800e-004 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.02 | 8.8200e-003 |
| tblVehicleEF | LDT2 | 0.07 | 0.06 |
| tblVehicleEF | LDT2 | 0.35 | 0.23 |
| tblVehicleEF | LHD1 | 4.9130e-003 | 4.1460e-003 |
| tblVehicleEF | LHD1 | 8.2090e-003 | 5.4760e-003 |
| tblVehicleEF | LHD1 | 0.01 | 9.1240e-003 |
| tblVehicleEF | LHD1 | 0.18 | 0.18 |
| tblVehicleEF | LHD1 | 0.75 | 0.50 |
| tblVehicleEF | LHD1 | 1.03 | 0.89 |
| tblVehicleEF | LHD1 | 8.95 | 8.34 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 779.84 | 702.21 |
| tblVehicleEF | LHD1 | 11.30 | 10.04 |
| tblVehicleEF | LHD1 | 7.7200e-004 | 7.4600e-004 |
| tblVehicleEF | LHD1 | 0.04 | 0.04 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 0.06 | 0.05 |
| tblVehicleEF | LHD1 | 0.77 | 0.37 |
| tblVehicleEF | LHD1 | 0.30 | 0.23 |
| tblVehicleEF | LHD1 | 8.7600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 9.8210e-003 | 9.9180e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.8050e-003 |
| tblVehicleEF | LHD1 | 2.4300e-004 | 2.1000e-004 |
| tblVehicleEF | LHD1 | 8.3800e-004 | 8.8900e-004 |
| tblVehicleEF | LHD1 | 2.4550e-003 | 2.4790e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.4230e-003 |
| tblVehicleEF | LHD1 | 2.2300e-004 | 1.9300e-004 |
| tblVehicleEF | LHD1 | 1.7240e-003 | 1.3190e-003 |
| tblVehicleEF | LHD1 | 0.07 | 0.06 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 9.5300e-004 | 7.7900e-004 |
| tblVehicleEF | LHD1 | 0.09 | 0.08 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.07 | 0.04 |
| tblVehicleEF | LHD1 | 8.7000e-005 | 8.1000e-005 |
| tblVehicleEF | LHD1 | 7.6100e-003 | 6.8460e-003 |
| tblVehicleEF | LHD1 | 1.1200e-004 | 9.9000e-005 |
| tblVehicleEF | LHD1 | 1.7240e-003 | 1.3190e-003 |
| tblVehicleEF | LHD1 | 0.07 | 0.06 |
| tblVehicleEF | LHD1 | 0.03 | 0.02 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 9.5300e-004 | 7.7900e-004 |
| tblVehicleEF | LHD1 | 0.12 | 0.09 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.07 | 0.05 |
| tblVehicleEF | LHD1 | 4.9280e-003 | 4.1590e-003 |
| tblVehicleEF | LHD1 | 8.4050e-003 | 5.5600e-003 |
| tblVehicleEF | LHD1 | 0.01 | 8.5890e-003 |
| tblVehicleEF | LHD1 | 0.18 | 0.18 |
| tblVehicleEF | LHD1 | 0.77 | 0.51 |
| tblVehicleEF | LHD1 | 0.95 | 0.83 |
| tblVehicleEF | LHD1 | 8.95 | 8.34 |
| tblVehicleEF | LHD1 | 779.87 | 702.22 |
| tblVehicleEF | LHD1 | 11.16 | 9.92 |
| tblVehicleEF | LHD1 | 7.7600e-004 | 7.4900e-004 |
| tblVehicleEF | LHD1 | 0.04 | 0.04 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 0.06 | 0.05 |
| tblVehicleEF | LHD1 | 0.74 | 0.35 |
| tblVehicleEF | LHD1 | 0.28 | 0.21 |
| tblVehicleEF | LHD1 | 8.7600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 9.8210e-003 | 9.9180e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.8050e-003 |
| tblVehicleEF | LHD1 | 2.4300e-004 | 2.1000e-004 |
| tblVehicleEF | LHD1 | 8.3800e-004 | 8.8900e-004 |
| tblVehicleEF | LHD1 | 2.4550e-003 | 2.4790e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.4230e-003 |
| tblVehicleEF | LHD1 | 2.2300e-004 | 1.9300e-004 |
| tblVehicleEF | LHD1 | 4.0880e-003 | 3.0750e-003 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 2.0160e-003 | 1.6020e-003 |
| tblVehicleEF | LHD1 | 0.10 | 0.08 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.06 | 0.04 |
| tblVehicleEF | LHD1 | 8.7000e-005 | 8.1000e-005 |
| tblVehicleEF | LHD1 | 7.6100e-003 | 6.8460e-003 |
| tblVehicleEF | LHD1 | 1.1000e-004 | 9.8000e-005 |
| tblVehicleEF | LHD1 | 4.0880e-003 | 3.0750e-003 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |
| tblVehicleEF | LHD1 | 0.03 | 0.02 |
| tblVehicleEF | LHD1 | 2.0160e-003 | 1.6020e-003 |
| tblVehicleEF | LHD1 | 0.12 | 0.09 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.07 | 0.05 |
| tblVehicleEF | LHD1 | 4.9010e-003 | 4.1360e-003 |
| tblVehicleEF | LHD1 | 8.0620e-003 | 5.4110e-003 |
| tblVehicleEF | LHD1 | 0.01 | 9.5570e-003 |
| tblVehicleEF | LHD1 | 0.18 | 0.18 |
| tblVehicleEF | LHD1 | 0.74 | 0.50 |
| tblVehicleEF | LHD1 | 1.10 | 0.95 |
| tblVehicleEF | LHD1 | 8.95 | 8.34 |
| tblVehicleEF | LHD1 | 779.81 | 702.20 |
| tblVehicleEF | LHD1 | 11.43 | 10.14 |
| tblVehicleEF | LHD1 | 7.7000e-004 | 7.4400e-004 |
| tblVehicleEF | LHD1 | 0.05 | 0.04 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 0.06 | 0.05 |
| tblVehicleEF | LHD1 | 0.79 | 0.38 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 0.32 | 0.24 |
| tblVehicleEF | LHD1 | 8.7600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 9.8210e-003 | 9.9180e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.8050e-003 |
| tblVehicleEF | LHD1 | 2.4300e-004 | 2.1000e-004 |
| tblVehicleEF | LHD1 | 8.3800e-004 | 8.8900e-004 |
| tblVehicleEF | LHD1 | 2.4550e-003 | 2.4790e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.4230e-003 |
| tblVehicleEF | LHD1 | 2.2300e-004 | 1.9300e-004 |
| tblVehicleEF | LHD1 | 7.6200e-004 | 6.1800e-004 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 4.5100e-004 | 3.8000e-004 |
| tblVehicleEF | LHD1 | 0.09 | 0.08 |
| tblVehicleEF | LHD1 | 0.23 | 0.21 |
| tblVehicleEF | LHD1 | 0.07 | 0.05 |
| tblVehicleEF | LHD1 | 8.7000e-005 | 8.1000e-005 |
| tblVehicleEF | LHD1 | 7.6090e-003 | 6.8460e-003 |
| tblVehicleEF | LHD1 | 1.1300e-004 | 1.0000e-004 |
| tblVehicleEF | LHD1 | 7.6200e-004 | 6.1800e-004 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |
| tblVehicleEF | LHD1 | 0.03 | 0.02 |
| tblVehicleEF | LHD1 | 4.5100e-004 | 3.8000e-004 |
| tblVehicleEF | LHD1 | 0.11 | 0.09 |
| tblVehicleEF | LHD1 | 0.23 | 0.21 |
| tblVehicleEF | LHD1 | 0.08 | 0.05 |
| tblVehicleEF | LHD2 | 3.1310e-003 | 2.5800e-003 |
| tblVehicleEF | LHD2 | 6.6950e-003 | 5.3930e-003 |
| tblVehicleEF | LHD2 | 7.9080e-003 | 5.0230e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.14 | 0.13 |
| tblVehicleEF | LHD2 | 0.60 | 0.50 |
| tblVehicleEF | LHD2 | 0.61 | 0.49 |
| tblVehicleEF | LHD2 | 13.91 | 13.05 |
| tblVehicleEF | LHD2 | 762.51 | 686.39 |
| tblVehicleEF | LHD2 | 7.76 | 6.59 |
| tblVehicleEF | LHD2 | 1.7310e-003 | 1.6650e-003 |
| tblVehicleEF | LHD2 | 0.07 | 0.06 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.10 | 0.08 |
| tblVehicleEF | LHD2 | 0.82 | 0.42 |
| tblVehicleEF | LHD2 | 0.18 | 0.13 |
| tblVehicleEF | LHD2 | 1.4140e-003 | 1.4850e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.2400e-004 | 1.0500e-004 |
| tblVehicleEF | LHD2 | 1.3520e-003 | 1.4200e-003 |
| tblVehicleEF | LHD2 | 2.6870e-003 | 2.7080e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 1.1400e-004 | 9.6000e-005 |
| tblVehicleEF | LHD2 | 8.8300e-004 | 6.0600e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 5.0400e-004 | 3.8500e-004 |
| tblVehicleEF | LHD2 | 0.11 | 0.10 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 1.3300e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 7.3640e-003 | 6.6220e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 7.7000e-005 | 6.5000e-005 |
| tblVehicleEF | LHD2 | 8.8300e-004 | 6.0600e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.02 |
| tblVehicleEF | LHD2 | 5.0400e-004 | 3.8500e-004 |
| tblVehicleEF | LHD2 | 0.13 | 0.11 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 3.1400e-003 | 2.5870e-003 |
| tblVehicleEF | LHD2 | 6.7700e-003 | 5.4280e-003 |
| tblVehicleEF | LHD2 | 7.4420e-003 | 4.7300e-003 |
| tblVehicleEF | LHD2 | 0.14 | 0.13 |
| tblVehicleEF | LHD2 | 0.61 | 0.50 |
| tblVehicleEF | LHD2 | 0.56 | 0.46 |
| tblVehicleEF | LHD2 | 13.91 | 13.05 |
| tblVehicleEF | LHD2 | 762.52 | 686.40 |
| tblVehicleEF | LHD2 | 7.68 | 6.53 |
| tblVehicleEF | LHD2 | 1.7330e-003 | 1.6660e-003 |
| tblVehicleEF | LHD2 | 0.07 | 0.06 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.10 | 0.08 |
| tblVehicleEF | LHD2 | 0.78 | 0.40 |
| tblVehicleEF | LHD2 | 0.17 | 0.12 |
| tblVehicleEF | LHD2 | 1.4140e-003 | 1.4850e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.2400e-004 | 1.0500e-004 |
| tblVehicleEF | LHD2 | 1.3520e-003 | 1.4200e-003 |
| tblVehicleEF | LHD2 | 2.6870e-003 | 2.7080e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 1.1400e-004 | 9.6000e-005 |
| tblVehicleEF | LHD2 | 2.0840e-003 | 1.3910e-003 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.0620e-003 | 7.8000e-004 |
| tblVehicleEF | LHD2 | 0.11 | 0.10 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 1.3300e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 7.3640e-003 | 6.6220e-003 |
| tblVehicleEF | LHD2 | 7.6000e-005 | 6.5000e-005 |
| tblVehicleEF | LHD2 | 2.0840e-003 | 1.3910e-003 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.02 |
| tblVehicleEF | LHD2 | 1.0620e-003 | 7.8000e-004 |
| tblVehicleEF | LHD2 | 0.13 | 0.11 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 3.1230e-003 | 2.5730e-003 |
| tblVehicleEF | LHD2 | 6.6390e-003 | 5.3660e-003 |
| tblVehicleEF | LHD2 | 8.2870e-003 | 5.2600e-003 |
| tblVehicleEF | LHD2 | 0.14 | 0.13 |
| tblVehicleEF | LHD2 | 0.60 | 0.50 |
| tblVehicleEF | LHD2 | 0.65 | 0.53 |
| tblVehicleEF | LHD2 | 13.91 | 13.05 |
| tblVehicleEF | LHD2 | 762.50 | 686.39 |
| tblVehicleEF | LHD2 | 7.83 | 6.64 |
| tblVehicleEF | LHD2 | 1.7290e-003 | 1.6640e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.07 | 0.06 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.10 | 0.08 |
| tblVehicleEF | LHD2 | 0.83 | 0.42 |
| tblVehicleEF | LHD2 | 0.19 | 0.14 |
| tblVehicleEF | LHD2 | 1.4140e-003 | 1.4850e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.2400e-004 | 1.0500e-004 |
| tblVehicleEF | LHD2 | 1.3520e-003 | 1.4200e-003 |
| tblVehicleEF | LHD2 | 2.6870e-003 | 2.7080e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 1.1400e-004 | 9.6000e-005 |
| tblVehicleEF | LHD2 | 4.0800e-004 | 3.0300e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 2.4500e-004 | 1.9200e-004 |
| tblVehicleEF | LHD2 | 0.11 | 0.10 |
| tblVehicleEF | LHD2 | 0.10 | 0.07 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 1.3300e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 7.3640e-003 | 6.6220e-003 |
| tblVehicleEF | LHD2 | 7.8000e-005 | 6.6000e-005 |
| tblVehicleEF | LHD2 | 4.0800e-004 | 3.0300e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.02 |
| tblVehicleEF | LHD2 | 2.4500e-004 | 1.9200e-004 |
| tblVehicleEF | LHD2 | 0.13 | 0.11 |
| tblVehicleEF | LHD2 | 0.10 | 0.07 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.05 | 0.03 |
| tblVehicleEF | MCY | 0.34 | 0.33 |
| tblVehicleEF | MCY | 0.26 | 0.25 |
| tblVehicleEF | MCY | 19.59 | 18.37 |
| tblVehicleEF | MCY | 9.12 | 9.28 |
| tblVehicleEF | MCY | 214.39 | 213.76 |
| tblVehicleEF | MCY | 61.37 | 59.74 |
| tblVehicleEF | MCY | 0.07 | 0.07 |
| tblVehicleEF | MCY | 0.02 | 0.02 |
| tblVehicleEF | MCY | 1.16 | 1.15 |
| tblVehicleEF | MCY | 0.27 | 0.27 |
| tblVehicleEF | MCY | 2.0760e-003 | 2.2080e-003 |
| tblVehicleEF | MCY | 3.0330e-003 | 2.8780e-003 |
| tblVehicleEF | MCY | 1.9410e-003 | 2.0600e-003 |
| tblVehicleEF | MCY | 2.8520e-003 | 2.6930e-003 |
| tblVehicleEF | MCY | 0.82 | 0.81 |
| tblVehicleEF | MCY | 0.70 | 0.64 |
| tblVehicleEF | MCY | 0.48 | 0.46 |
| tblVehicleEF | MCY | 2.30 | 2.22 |
| tblVehicleEF | MCY | 0.56 | 0.45 |
| tblVehicleEF | MCY | 1.97 | 1.91 |
| tblVehicleEF | MCY | 2.1220e-003 | 2.1150e-003 |
| tblVehicleEF | MCY | 6.0700e-004 | 5.9100e-004 |
| tblVehicleEF | MCY | 0.82 | 0.81 |
| tblVehicleEF | MCY | 0.70 | 0.64 |
| tblVehicleEF | MCY | 0.48 | 0.46 |
| tblVehicleEF | MCY | 2.85 | 2.78 |
| tblVehicleEF | MCY | 0.56 | 0.45 |
| tblVehicleEF | MCY | 2.15 | 2.08 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MCY | 0.33 | 0.32 |
| tblVehicleEF | MCY | 0.21 | 0.21 |
| tblVehicleEF | MCY | 18.64 | 17.56 |
| tblVehicleEF | MCY | 7.85 | 7.92 |
| tblVehicleEF | MCY | 212.58 | 212.21 |
| tblVehicleEF | MCY | 58.18 | 56.50 |
| tblVehicleEF | MCY | 0.06 | 0.06 |
| tblVehicleEF | MCY | 0.01 | 0.01 |
| tblVehicleEF | MCY | 1.02 | 1.01 |
| tblVehicleEF | MCY | 0.25 | 0.25 |
| tblVehicleEF | MCY | 2.0760e-003 | 2.2080e-003 |
| tblVehicleEF | MCY | 3.0330e-003 | 2.8780e-003 |
| tblVehicleEF | MCY | 1.9410e-003 | 2.0600e-003 |
| tblVehicleEF | MCY | 2.8520e-003 | 2.6930e-003 |
| tblVehicleEF | MCY | 2.28 | 2.23 |
| tblVehicleEF | MCY | 0.94 | 0.87 |
| tblVehicleEF | MCY | 1.35 | 1.28 |
| tblVehicleEF | MCY | 2.21 | 2.15 |
| tblVehicleEF | MCY | 0.52 | 0.42 |
| tblVehicleEF | MCY | 1.62 | 1.58 |
| tblVehicleEF | MCY | 2.1040e-003 | 2.1000e-003 |
| tblVehicleEF | MCY | 5.7600e-004 | 5.5900e-004 |
| tblVehicleEF | MCY | 2.28 | 2.23 |
| tblVehicleEF | MCY | 0.94 | 0.87 |
| tblVehicleEF | MCY | 1.35 | 1.28 |
| tblVehicleEF | MCY | 2.74 | 2.69 |
| tblVehicleEF | MCY | 0.52 | 0.42 |
| tblVehicleEF | MCY | 1.76 | 1.72 |
| tblVehicleEF | MCY | 0.35 | 0.34 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MCY | 0.30 | 0.29 |
| tblVehicleEF | MCY | 21.17 | 19.76 |
| tblVehicleEF | MCY | 10.46 | 10.66 |
| tblVehicleEF | MCY | 217.24 | 216.26 |
| tblVehicleEF | MCY | 64.56 | 62.93 |
| tblVehicleEF | MCY | 0.07 | 0.07 |
| tblVehicleEF | MCY | 0.02 | 0.02 |
| tblVehicleEF | MCY | 1.25 | 1.23 |
| tblVehicleEF | MCY | 0.29 | 0.29 |
| tblVehicleEF | MCY | 2.0760e-003 | 2.2080e-003 |
| tblVehicleEF | MCY | 3.0330e-003 | 2.8780e-003 |
| tblVehicleEF | MCY | 1.9410e-003 | 2.0600e-003 |
| tblVehicleEF | MCY | 2.8520e-003 | 2.6930e-003 |
| tblVehicleEF | MCY | 0.27 | 0.27 |
| tblVehicleEF | MCY | 0.83 | 0.74 |
| tblVehicleEF | MCY | 0.17 | 0.17 |
| tblVehicleEF | MCY | 2.39 | 2.30 |
| tblVehicleEF | MCY | 0.66 | 0.55 |
| tblVehicleEF | MCY | 2.30 | 2.21 |
| tblVehicleEF | MCY | 2.1500e-003 | 2.1400e-003 |
| tblVehicleEF | MCY | 6.3900e-004 | 6.2300e-004 |
| tblVehicleEF | MCY | 0.27 | 0.27 |
| tblVehicleEF | MCY | 0.83 | 0.74 |
| tblVehicleEF | MCY | 0.17 | 0.17 |
| tblVehicleEF | MCY | 2.96 | 2.87 |
| tblVehicleEF | MCY | 0.66 | 0.55 |
| tblVehicleEF | MCY | 2.50 | 2.40 |
| tblVehicleEF | MDV | 3.3270e-003 | 1.7560e-003 |
| tblVehicleEF | MDV | 0.07 | 0.04 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MDV | 0.75 | 0.54 |
| tblVehicleEF | MDV | 3.01 | 2.36 |
| tblVehicleEF | MDV | 375.57 | 324.64 |
| tblVehicleEF | MDV | 79.81 | 68.19 |
| tblVehicleEF | MDV | 7.5320e-003 | 5.2880e-003 |
| tblVehicleEF | MDV | 0.03 | 0.02 |
| tblVehicleEF | MDV | 0.07 | 0.03 |
| tblVehicleEF | MDV | 0.30 | 0.18 |
| tblVehicleEF | MDV | 1.4750e-003 | 1.0550e-003 |
| tblVehicleEF | MDV | 1.8190e-003 | 1.3680e-003 |
| tblVehicleEF | MDV | 1.3600e-003 | 9.7300e-004 |
| tblVehicleEF | MDV | 1.6730e-003 | 1.2580e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.06 | 0.06 |
| tblVehicleEF | MDV | 0.01 | 6.7850e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.35 | 0.20 |
| tblVehicleEF | MDV | 3.6390e-003 | 3.0040e-003 |
| tblVehicleEF | MDV | 7.7400e-004 | 6.3100e-004 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.06 | 0.06 |
| tblVehicleEF | MDV | 0.02 | 9.8300e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.38 | 0.22 |
| tblVehicleEF | MDV | 3.7530e-003 | 1.9850e-003 |
| tblVehicleEF | MDV | 0.06 | 0.04 |
| tblVehicleEF | MDV | 0.88 | 0.63 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MDV | 2.33 | 1.84 |
| tblVehicleEF | MDV | 394.37 | 340.28 |
| tblVehicleEF | MDV | 78.49 | 67.18 |
| tblVehicleEF | MDV | 7.0800e-003 | 5.0040e-003 |
| tblVehicleEF | MDV | 0.03 | 0.02 |
| tblVehicleEF | MDV | 0.06 | 0.03 |
| tblVehicleEF | MDV | 0.26 | 0.16 |
| tblVehicleEF | MDV | 1.4750e-003 | 1.0550e-003 |
| tblVehicleEF | MDV | 1.8190e-003 | 1.3680e-003 |
| tblVehicleEF | MDV | 1.3600e-003 | 9.7300e-004 |
| tblVehicleEF | MDV | 1.6730e-003 | 1.2580e-003 |
| tblVehicleEF | MDV | 0.15 | 0.13 |
| tblVehicleEF | MDV | 0.14 | 0.11 |
| tblVehicleEF | MDV | 0.13 | 0.11 |
| tblVehicleEF | MDV | 0.02 | 7.5250e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.29 | 0.17 |
| tblVehicleEF | MDV | 3.8210e-003 | 3.1480e-003 |
| tblVehicleEF | MDV | 7.6100e-004 | 6.2100e-004 |
| tblVehicleEF | MDV | 0.15 | 0.13 |
| tblVehicleEF | MDV | 0.14 | 0.11 |
| tblVehicleEF | MDV | 0.13 | 0.11 |
| tblVehicleEF | MDV | 0.02 | 0.01 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.31 | 0.18 |
| tblVehicleEF | MDV | 3.2110e-003 | 1.6900e-003 |
| tblVehicleEF | MDV | 0.08 | 0.05 |
| tblVehicleEF | MDV | 0.75 | 0.53 |
| tblVehicleEF | MDV | 3.53 | 2.77 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MDV | 373.29 | 322.76 |
| tblVehicleEF | MDV | 80.81 | 68.96 |
| tblVehicleEF | MDV | 7.9370e-003 | 5.5430e-003 |
| tblVehicleEF | MDV | 0.03 | 0.02 |
| tblVehicleEF | MDV | 0.08 | 0.04 |
| tblVehicleEF | MDV | 0.32 | 0.20 |
| tblVehicleEF | MDV | 1.4750e-003 | 1.0550e-003 |
| tblVehicleEF | MDV | 1.8190e-003 | 1.3680e-003 |
| tblVehicleEF | MDV | 1.3600e-003 | 9.7300e-004 |
| tblVehicleEF | MDV | 1.6730e-003 | 1.2580e-003 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.01 | 6.6150e-003 |
| tblVehicleEF | MDV | 0.07 | 0.06 |
| tblVehicleEF | MDV | 0.40 | 0.23 |
| tblVehicleEF | MDV | 3.6170e-003 | 2.9860e-003 |
| tblVehicleEF | MDV | 7.8300e-004 | 6.3800e-004 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.02 | 9.5820e-003 |
| tblVehicleEF | MDV | 0.07 | 0.06 |
| tblVehicleEF | MDV | 0.43 | 0.25 |
| tblVehicleEF | MH | 9.2590e-003 | 5.0570e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 0.88 | 0.32 |
| tblVehicleEF | MH | 2.01 | 1.63 |
| tblVehicleEF | MH | 1,500.18 | 1,351.69 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MH | 17.93 | 15.45 |
| tblVehicleEF | MH | 0.06 | 0.05 |
| tblVehicleEF | MH | 0.03 | 0.03 |
| tblVehicleEF | MH | 1.34 | 1.09 |
| tblVehicleEF | MH | 0.24 | 0.24 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.5200e-004 | 2.0900e-004 |
| tblVehicleEF | MH | 3.2840e-003 | 3.3000e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.3200e-004 | 1.9300e-004 |
| tblVehicleEF | MH | 0.56 | 0.31 |
| tblVehicleEF | MH | 0.05 | 0.03 |
| tblVehicleEF | MH | 0.21 | 0.13 |
| tblVehicleEF | MH | 0.06 | 0.04 |
| tblVehicleEF | MH | 0.01 | 5.4940e-003 |
| tblVehicleEF | MH | 0.09 | 0.07 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 1.7700e-004 | 1.5300e-004 |
| tblVehicleEF | MH | 0.56 | 0.31 |
| tblVehicleEF | MH | 0.05 | 0.03 |
| tblVehicleEF | MH | 0.21 | 0.13 |
| tblVehicleEF | MH | 0.08 | 0.05 |
| tblVehicleEF | MH | 0.01 | 5.4940e-003 |
| tblVehicleEF | MH | 0.10 | 0.08 |
| tblVehicleEF | MH | 9.5620e-003 | 5.1780e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 0.92 | 0.32 |
| tblVehicleEF | MH | 1.82 | 1.48 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MH | 1,500.24 | 1,351.71 |
| tblVehicleEF | MH | 17.62 | 15.20 |
| tblVehicleEF | MH | 0.06 | 0.05 |
| tblVehicleEF | MH | 0.03 | 0.03 |
| tblVehicleEF | MH | 1.27 | 1.04 |
| tblVehicleEF | MH | 0.22 | 0.22 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.5200e-004 | 2.0900e-004 |
| tblVehicleEF | MH | 3.2840e-003 | 3.3000e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.3200e-004 | 1.9300e-004 |
| tblVehicleEF | MH | 1.32 | 0.73 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.46 | 0.28 |
| tblVehicleEF | MH | 0.06 | 0.04 |
| tblVehicleEF | MH | 0.01 | 5.3430e-003 |
| tblVehicleEF | MH | 0.08 | 0.07 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 1.7400e-004 | 1.5000e-004 |
| tblVehicleEF | MH | 1.32 | 0.73 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.46 | 0.28 |
| tblVehicleEF | MH | 0.08 | 0.05 |
| tblVehicleEF | MH | 0.01 | 5.3430e-003 |
| tblVehicleEF | MH | 0.09 | 0.08 |
| tblVehicleEF | MH | 9.0400e-003 | 4.9670e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 0.86 | 0.31 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MH | 2.17 | 1.75 |
| tblVehicleEF | MH | 1,500.14 | 1,351.68 |
| tblVehicleEF | MH | 18.20 | 15.66 |
| tblVehicleEF | MH | 0.06 | 0.05 |
| tblVehicleEF | MH | 0.03 | 0.03 |
| tblVehicleEF | MH | 1.37 | 1.11 |
| tblVehicleEF | MH | 0.26 | 0.25 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.5200e-004 | 2.0900e-004 |
| tblVehicleEF | MH | 3.2840e-003 | 3.3000e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.3200e-004 | 1.9300e-004 |
| tblVehicleEF | MH | 0.24 | 0.15 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.10 | 0.07 |
| tblVehicleEF | MH | 0.06 | 0.04 |
| tblVehicleEF | MH | 0.01 | 5.9510e-003 |
| tblVehicleEF | MH | 0.10 | 0.08 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 1.8000e-004 | 1.5500e-004 |
| tblVehicleEF | MH | 0.24 | 0.15 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.10 | 0.07 |
| tblVehicleEF | MH | 0.08 | 0.05 |
| tblVehicleEF | MH | 0.01 | 5.9510e-003 |
| tblVehicleEF | MH | 0.10 | 0.09 |
| tblVehicleEF | MHD | 3.2680e-003 | 3.2270e-003 |
| tblVehicleEF | MHD | 1.5920e-003 | 9.3800e-004 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 8.3460e-003 | 7.0270e-003 |
| tblVehicleEF | MHD | 0.39 | 0.40 |
| tblVehicleEF | MHD | 0.22 | 0.15 |
| tblVehicleEF | MHD | 0.97 | 0.73 |
| tblVehicleEF | MHD | 77.14 | 70.46 |
| tblVehicleEF | MHD | 1,063.76 | 968.31 |
| tblVehicleEF | MHD | 8.30 | 7.11 |
| tblVehicleEF | MHD | 0.01 | 0.01 |
| tblVehicleEF | MHD | 0.14 | 0.13 |
| tblVehicleEF | MHD | 6.5730e-003 | 6.4400e-003 |
| tblVehicleEF | MHD | 0.45 | 0.38 |
| tblVehicleEF | MHD | 1.43 | 1.43 |
| tblVehicleEF | MHD | 1.75 | 1.78 |
| tblVehicleEF | MHD | 3.7700e-004 | 1.6900e-004 |
| tblVehicleEF | MHD | 6.9020e-003 | 6.9630e-003 |
| tblVehicleEF | MHD | 1.0000e-004 | 9.0000e-005 |
| tblVehicleEF | MHD | 3.6100e-004 | 1.6100e-004 |
| tblVehicleEF | MHD | 6.5980e-003 | 6.6560e-003 |
| tblVehicleEF | MHD | 9.2000e-005 | 8.3000e-005 |
| tblVehicleEF | MHD | 3.2200e-004 | 2.2800e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 1.8400e-004 | 1.4600e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.04 | 0.03 |
| tblVehicleEF | MHD | 7.3100e-004 | 6.6800e-004 |
| tblVehicleEF | MHD | 0.01 | 9.2240e-003 |
| tblVehicleEF | MHD | 8.2000e-005 | 7.0000e-005 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 3.2200e-004 | 2.2800e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 1.8400e-004 | 1.4600e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.05 | 0.04 |
| tblVehicleEF | MHD | 3.0860e-003 | 3.0510e-003 |
| tblVehicleEF | MHD | 1.6370e-003 | 9.5900e-004 |
| tblVehicleEF | MHD | 7.8280e-003 | 6.6030e-003 |
| tblVehicleEF | MHD | 0.33 | 0.34 |
| tblVehicleEF | MHD | 0.23 | 0.15 |
| tblVehicleEF | MHD | 0.89 | 0.67 |
| tblVehicleEF | MHD | 77.11 | 70.04 |
| tblVehicleEF | MHD | 1,063.77 | 968.32 |
| tblVehicleEF | MHD | 8.16 | 7.00 |
| tblVehicleEF | MHD | 0.01 | 0.01 |
| tblVehicleEF | MHD | 0.14 | 0.13 |
| tblVehicleEF | MHD | 6.2730e-003 | 6.1400e-003 |
| tblVehicleEF | MHD | 0.44 | 0.37 |
| tblVehicleEF | MHD | 1.38 | 1.38 |
| tblVehicleEF | MHD | 1.74 | 1.77 |
| tblVehicleEF | MHD | 3.2200e-004 | 1.4600e-004 |
| tblVehicleEF | MHD | 6.9020e-003 | 6.9630e-003 |
| tblVehicleEF | MHD | 1.0000e-004 | 9.0000e-005 |
| tblVehicleEF | MHD | 3.0800e-004 | 1.4000e-004 |
| tblVehicleEF | MHD | 6.5980e-003 | 6.6560e-003 |
| tblVehicleEF | MHD | 9.2000e-005 | 8.3000e-005 |
| tblVehicleEF | MHD | 7.7400e-004 | 5.2800e-004 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 4.0200e-004 | 3.0000e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.04 | 0.03 |
| tblVehicleEF | MHD | 7.3100e-004 | 6.6400e-004 |
| tblVehicleEF | MHD | 0.01 | 9.2240e-003 |
| tblVehicleEF | MHD | 8.1000e-005 | 6.9000e-005 |
| tblVehicleEF | MHD | 7.7400e-004 | 5.2800e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 4.0200e-004 | 3.0000e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.04 | 0.04 |
| tblVehicleEF | MHD | 3.4470e-003 | 3.3980e-003 |
| tblVehicleEF | MHD | 1.5590e-003 | 9.2200e-004 |
| tblVehicleEF | MHD | 8.7440e-003 | 7.3520e-003 |
| tblVehicleEF | MHD | 0.45 | 0.45 |
| tblVehicleEF | MHD | 0.22 | 0.14 |
| tblVehicleEF | MHD | 1.04 | 0.78 |
| tblVehicleEF | MHD | 77.29 | 71.13 |
| tblVehicleEF | MHD | 1,063.75 | 968.31 |
| tblVehicleEF | MHD | 8.43 | 7.20 |
| tblVehicleEF | MHD | 0.01 | 0.01 |
| tblVehicleEF | MHD | 0.14 | 0.13 |
| tblVehicleEF | MHD | 6.8340e-003 | 6.6960e-003 |
| tblVehicleEF | MHD | 0.47 | 0.40 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 1.46 | 1.46 |
| tblVehicleEF | MHD | 1.75 | 1.78 |
| tblVehicleEF | MHD | 4.5400e-004 | 2.0000e-004 |
| tblVehicleEF | MHD | 6.9020e-003 | 6.9630e-003 |
| tblVehicleEF | MHD | 1.0000e-004 | 9.0000e-005 |
| tblVehicleEF | MHD | 4.3500e-004 | 1.9200e-004 |
| tblVehicleEF | MHD | 6.5980e-003 | 6.6560e-003 |
| tblVehicleEF | MHD | 9.2000e-005 | 8.3000e-005 |
| tblVehicleEF | MHD | 1.4700e-004 | 1.1500e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 8.6000e-005 | 7.2000e-005 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.05 | 0.04 |
| tblVehicleEF | MHD | 7.3300e-004 | 6.7400e-004 |
| tblVehicleEF | MHD | 0.01 | 9.2240e-003 |
| tblVehicleEF | MHD | 8.3000e-005 | 7.1000e-005 |
| tblVehicleEF | MHD | 1.4700e-004 | 1.1500e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 8.6000e-005 | 7.2000e-005 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.05 | 0.04 |
| tblVehicleEF | OBUS | 7.5460e-003 | 7.3320e-003 |
| tblVehicleEF | OBUS | 4.6420e-003 | 2.4610e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.61 | 0.69 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 0.54 | 0.29 |
| tblVehicleEF | OBUS | 2.05 | 1.68 |
| tblVehicleEF | OBUS | 94.83 | 102.80 |
| tblVehicleEF | OBUS | 1,366.37 | 1,219.51 |
| tblVehicleEF | OBUS | 16.54 | 14.05 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 0.13 | 0.12 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.38 | 0.46 |
| tblVehicleEF | OBUS | 1.41 | 1.41 |
| tblVehicleEF | OBUS | 1.01 | 1.11 |
| tblVehicleEF | OBUS | 1.2600e-004 | 1.5300e-004 |
| tblVehicleEF | OBUS | 7.6120e-003 | 8.0870e-003 |
| tblVehicleEF | OBUS | 1.6300e-004 | 1.5700e-004 |
| tblVehicleEF | OBUS | 1.2100e-004 | 1.4600e-004 |
| tblVehicleEF | OBUS | 7.2680e-003 | 7.7230e-003 |
| tblVehicleEF | OBUS | 1.5000e-004 | 1.4500e-004 |
| tblVehicleEF | OBUS | 1.2070e-003 | 1.0910e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 5.7100e-004 | 5.3900e-004 |
| tblVehicleEF | OBUS | 0.03 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.10 | 0.08 |
| tblVehicleEF | OBUS | 9.0100e-004 | 9.7600e-004 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 1.6400e-004 | 1.3900e-004 |
| tblVehicleEF | OBUS | 1.2070e-003 | 1.0910e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 0.06 | 0.07 |
| tblVehicleEF | OBUS | 5.7100e-004 | 5.3900e-004 |
| tblVehicleEF | OBUS | 0.04 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.11 | 0.09 |
| tblVehicleEF | OBUS | 7.6420e-003 | 7.4450e-003 |
| tblVehicleEF | OBUS | 4.8080e-003 | 2.5400e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.60 | 0.68 |
| tblVehicleEF | OBUS | 0.56 | 0.30 |
| tblVehicleEF | OBUS | 1.87 | 1.53 |
| tblVehicleEF | OBUS | 93.70 | 101.54 |
| tblVehicleEF | OBUS | 1,366.40 | 1,219.52 |
| tblVehicleEF | OBUS | 16.22 | 13.79 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 0.13 | 0.12 |
| tblVehicleEF | OBUS | 0.02 | 0.01 |
| tblVehicleEF | OBUS | 0.36 | 0.44 |
| tblVehicleEF | OBUS | 1.34 | 1.35 |
| tblVehicleEF | OBUS | 1.00 | 1.09 |
| tblVehicleEF | OBUS | 1.1200e-004 | 1.3600e-004 |
| tblVehicleEF | OBUS | 7.6120e-003 | 8.0870e-003 |
| tblVehicleEF | OBUS | 1.6300e-004 | 1.5700e-004 |
| tblVehicleEF | OBUS | 1.0700e-004 | 1.3000e-004 |
| tblVehicleEF | OBUS | 7.2680e-003 | 7.7230e-003 |
| tblVehicleEF | OBUS | 1.5000e-004 | 1.4500e-004 |
| tblVehicleEF | OBUS | 2.7510e-003 | 2.4450e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.06 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 1.1940e-003 | 1.0970e-003 |
| tblVehicleEF | OBUS | 0.03 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.09 | 0.08 |
| tblVehicleEF | OBUS | 8.9100e-004 | 9.6400e-004 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 1.6000e-004 | 1.3600e-004 |
| tblVehicleEF | OBUS | 2.7510e-003 | 2.4450e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.07 | 0.07 |
| tblVehicleEF | OBUS | 1.1940e-003 | 1.0970e-003 |
| tblVehicleEF | OBUS | 0.04 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.10 | 0.08 |
| tblVehicleEF | OBUS | 7.4290e-003 | 7.1920e-003 |
| tblVehicleEF | OBUS | 4.5240e-003 | 2.4030e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.62 | 0.69 |
| tblVehicleEF | OBUS | 0.53 | 0.29 |
| tblVehicleEF | OBUS | 2.21 | 1.81 |
| tblVehicleEF | OBUS | 96.39 | 104.53 |
| tblVehicleEF | OBUS | 1,366.34 | 1,219.50 |
| tblVehicleEF | OBUS | 16.80 | 14.27 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 0.13 | 0.12 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.41 | 0.49 |
| tblVehicleEF | OBUS | 1.44 | 1.44 |
| tblVehicleEF | OBUS | 1.02 | 1.12 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 1.4600e-004 | 1.7600e-004 |
| tblVehicleEF | OBUS | 7.6120e-003 | 8.0870e-003 |
| tblVehicleEF | OBUS | 1.6300e-004 | 1.5700e-004 |
| tblVehicleEF | OBUS | 1.3900e-004 | 1.6900e-004 |
| tblVehicleEF | OBUS | 7.2680e-003 | 7.7230e-003 |
| tblVehicleEF | OBUS | 1.5000e-004 | 1.4500e-004 |
| tblVehicleEF | OBUS | 6.1800e-004 | 5.8900e-004 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 2.8000e-004 | 2.7400e-004 |
| tblVehicleEF | OBUS | 0.03 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.06 |
| tblVehicleEF | OBUS | 0.10 | 0.09 |
| tblVehicleEF | OBUS | 9.1600e-004 | 9.9200e-004 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 1.6600e-004 | 1.4100e-004 |
| tblVehicleEF | OBUS | 6.1800e-004 | 5.8900e-004 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.06 | 0.06 |
| tblVehicleEF | OBUS | 2.8000e-004 | 2.7400e-004 |
| tblVehicleEF | OBUS | 0.04 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.06 |
| tblVehicleEF | OBUS | 0.11 | 0.09 |
| tblVehicleEF | SBUS | 0.05 | 0.06 |
| tblVehicleEF | SBUS | 4.9990e-003 | 3.4080e-003 |
| tblVehicleEF | SBUS | 4.1290e-003 | 4.8910e-003 |
| tblVehicleEF | SBUS | 2.09 | 2.56 |
| tblVehicleEF | SBUS | 0.41 | 0.29 |
| tblVehicleEF | SBUS | 0.60 | 0.68 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 334.38 | 316.42 |
| tblVehicleEF | SBUS | 1,023.89 | 936.84 |
| tblVehicleEF | SBUS | 3.46 | 3.97 |
| tblVehicleEF | SBUS | 0.05 | 0.04 |
| tblVehicleEF | SBUS | 0.13 | 0.12 |
| tblVehicleEF | SBUS | 3.9630e-003 | 4.9690e-003 |
| tblVehicleEF | SBUS | 3.05 | 2.32 |
| tblVehicleEF | SBUS | 4.00 | 2.57 |
| tblVehicleEF | SBUS | 1.06 | 1.41 |
| tblVehicleEF | SBUS | 2.8790e-003 | 1.5510e-003 |
| tblVehicleEF | SBUS | 0.01 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.6000e-005 | 5.9000e-005 |
| tblVehicleEF | SBUS | 2.7540e-003 | 1.4840e-003 |
| tblVehicleEF | SBUS | 2.7460e-003 | 2.7130e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.2000e-005 | 5.4000e-005 |
| tblVehicleEF | SBUS | 3.7600e-004 | 5.4600e-004 |
| tblVehicleEF | SBUS | 3.8150e-003 | 5.4730e-003 |
| tblVehicleEF | SBUS | 0.22 | 0.26 |
| tblVehicleEF | SBUS | 1.7100e-004 | 2.7600e-004 |
| tblVehicleEF | SBUS | 0.07 | 0.05 |
| tblVehicleEF | SBUS | 7.6050e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.03 |
| tblVehicleEF | SBUS | 3.1800e-003 | 3.0130e-003 |
| tblVehicleEF | SBUS | 9.7680e-003 | 8.9520e-003 |
| tblVehicleEF | SBUS | 3.4000e-005 | 3.9000e-005 |
| tblVehicleEF | SBUS | 3.7600e-004 | 5.4600e-004 |
| tblVehicleEF | SBUS | 3.8150e-003 | 5.4730e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 0.31 | 0.38 |
| tblVehicleEF | SBUS | 1.7100e-004 | 2.7600e-004 |
| tblVehicleEF | SBUS | 0.08 | 0.06 |
| tblVehicleEF | SBUS | 7.6050e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.03 | 0.03 |
| tblVehicleEF | SBUS | 0.05 | 0.06 |
| tblVehicleEF | SBUS | 5.0750e-003 | 3.4610e-003 |
| tblVehicleEF | SBUS | 3.4710e-003 | 4.1100e-003 |
| tblVehicleEF | SBUS | 2.06 | 2.53 |
| tblVehicleEF | SBUS | 0.41 | 0.29 |
| tblVehicleEF | SBUS | 0.44 | 0.50 |
| tblVehicleEF | SBUS | 341.28 | 319.50 |
| tblVehicleEF | SBUS | 1,023.90 | 936.85 |
| tblVehicleEF | SBUS | 3.19 | 3.67 |
| tblVehicleEF | SBUS | 0.05 | 0.04 |
| tblVehicleEF | SBUS | 0.13 | 0.12 |
| tblVehicleEF | SBUS | 3.7660e-003 | 4.7200e-003 |
| tblVehicleEF | SBUS | 3.10 | 2.32 |
| tblVehicleEF | SBUS | 3.84 | 2.46 |
| tblVehicleEF | SBUS | 1.06 | 1.40 |
| tblVehicleEF | SBUS | 2.4360e-003 | 1.3190e-003 |
| tblVehicleEF | SBUS | 0.01 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.6000e-005 | 5.9000e-005 |
| tblVehicleEF | SBUS | 2.3310e-003 | 1.2620e-003 |
| tblVehicleEF | SBUS | 2.7460e-003 | 2.7130e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.2000e-005 | 5.4000e-005 |
| tblVehicleEF | SBUS | 8.5100e-004 | 1.1970e-003 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 3.9770e-003 | 5.6050e-003 |
| tblVehicleEF | SBUS | 0.22 | 0.26 |
| tblVehicleEF | SBUS | 3.6700e-004 | 5.5800e-004 |
| tblVehicleEF | SBUS | 0.07 | 0.05 |
| tblVehicleEF | SBUS | 6.4150e-003 | 8.9170e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 3.2450e-003 | 3.0430e-003 |
| tblVehicleEF | SBUS | 9.7680e-003 | 8.9520e-003 |
| tblVehicleEF | SBUS | 3.2000e-005 | 3.6000e-005 |
| tblVehicleEF | SBUS | 8.5100e-004 | 1.1970e-003 |
| tblVehicleEF | SBUS | 3.9770e-003 | 5.6050e-003 |
| tblVehicleEF | SBUS | 0.31 | 0.38 |
| tblVehicleEF | SBUS | 3.6700e-004 | 5.5800e-004 |
| tblVehicleEF | SBUS | 0.08 | 0.06 |
| tblVehicleEF | SBUS | 6.4150e-003 | 8.9170e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.03 |
| tblVehicleEF | SBUS | 0.05 | 0.06 |
| tblVehicleEF | SBUS | 4.9420e-003 | 3.3690e-003 |
| tblVehicleEF | SBUS | 4.6630e-003 | 5.5230e-003 |
| tblVehicleEF | SBUS | 2.14 | 2.59 |
| tblVehicleEF | SBUS | 0.40 | 0.29 |
| tblVehicleEF | SBUS | 0.75 | 0.84 |
| tblVehicleEF | SBUS | 324.86 | 312.18 |
| tblVehicleEF | SBUS | 1,023.88 | 936.84 |
| tblVehicleEF | SBUS | 3.70 | 4.24 |
| tblVehicleEF | SBUS | 0.05 | 0.04 |
| tblVehicleEF | SBUS | 0.13 | 0.12 |
| tblVehicleEF | SBUS | 4.1250e-003 | 5.1740e-003 |
| tblVehicleEF | SBUS | 2.97 | 2.31 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 4.07 | 2.62 |
| tblVehicleEF | SBUS | 1.06 | 1.41 |
| tblVehicleEF | SBUS | 3.4900e-003 | 1.8720e-003 |
| tblVehicleEF | SBUS | 0.01 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.6000e-005 | 5.9000e-005 |
| tblVehicleEF | SBUS | 3.3390e-003 | 1.7910e-003 |
| tblVehicleEF | SBUS | 2.7460e-003 | 2.7130e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.2000e-005 | 5.4000e-005 |
| tblVehicleEF | SBUS | 1.9800e-004 | 3.1300e-004 |
| tblVehicleEF | SBUS | 3.8980e-003 | 5.5430e-003 |
| tblVehicleEF | SBUS | 0.22 | 0.26 |
| tblVehicleEF | SBUS | 8.5000e-005 | 1.4300e-004 |
| tblVehicleEF | SBUS | 0.07 | 0.05 |
| tblVehicleEF | SBUS | 9.8980e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.03 | 0.03 |
| tblVehicleEF | SBUS | 3.0900e-003 | 2.9730e-003 |
| tblVehicleEF | SBUS | 9.7680e-003 | 8.9510e-003 |
| tblVehicleEF | SBUS | 3.7000e-005 | 4.2000e-005 |
| tblVehicleEF | SBUS | 1.9800e-004 | 3.1300e-004 |
| tblVehicleEF | SBUS | 3.8980e-003 | 5.5430e-003 |
| tblVehicleEF | SBUS | 0.31 | 0.38 |
| tblVehicleEF | SBUS | 8.5000e-005 | 1.4300e-004 |
| tblVehicleEF | SBUS | 0.08 | 0.06 |
| tblVehicleEF | SBUS | 9.8980e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.03 | 0.03 |
| tblVehicleEF | UBUS | 1.31 | 1.76 |
| tblVehicleEF | UBUS | 5.6580e-003 | 4.9700e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | UBUS | 9.77 | 13.30 |
| tblVehicleEF | UBUS | 0.42 | 0.42 |
| tblVehicleEF | UBUS | 1,631.11 | 1,631.09 |
| tblVehicleEF | UBUS | 4.56 | 4.00 |
| tblVehicleEF | UBUS | 0.26 | 0.27 |
| tblVehicleEF | UBUS | 4.0700e-003 | 3.6960e-003 |
| tblVehicleEF | UBUS | 0.70 | 0.68 |
| tblVehicleEF | UBUS | 0.05 | 0.04 |
| tblVehicleEF | UBUS | 5.0900e-003 | 4.9500e-003 |
| tblVehicleEF | UBUS | 3.6000e-005 | 5.0000e-005 |
| tblVehicleEF | UBUS | 4.8670e-003 | 4.7320e-003 |
| tblVehicleEF | UBUS | 3.3000e-005 | 4.6000e-005 |
| tblVehicleEF | UBUS | 2.5000e-004 | 1.4800e-004 |
| tblVehicleEF | UBUS | 3.7780e-003 | 1.8210e-003 |
| tblVehicleEF | UBUS | 1.6000e-004 | 8.8000e-005 |
| tblVehicleEF | UBUS | 0.02 | 0.03 |
| tblVehicleEF | UBUS | 9.7800e-004 | 3.8300e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.02 |
| tblVehicleEF | UBUS | 0.01 | 0.01 |
| tblVehicleEF | UBUS | 4.5000e-005 | 4.0000e-005 |
| tblVehicleEF | UBUS | 2.5000e-004 | 1.4800e-004 |
| tblVehicleEF | UBUS | 3.7780e-003 | 1.8210e-003 |
| tblVehicleEF | UBUS | 1.6000e-004 | 8.8000e-005 |
| tblVehicleEF | UBUS | 1.34 | 1.79 |
| tblVehicleEF | UBUS | 9.7800e-004 | 3.8300e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.02 |
| tblVehicleEF | UBUS | 1.31 | 1.76 |
| tblVehicleEF | UBUS | 5.0110e-003 | 4.3930e-003 |
| tblVehicleEF | UBUS | 9.77 | 13.30 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | | | |
|---|---|---|---|
| tblVehicleEF | UBUS | 0.34 | 0.34 |
| tblVehicleEF | UBUS | 1,631.11 | 1,631.09 |
| tblVehicleEF | UBUS | 4.42 | 3.86 |
| tblVehicleEF | UBUS | 0.26 | 0.27 |
| tblVehicleEF | UBUS | 3.8980e-003 | 3.5400e-003 |
| tblVehicleEF | UBUS | 0.69 | 0.67 |
| tblVehicleEF | UBUS | 0.04 | 0.04 |
| tblVehicleEF | UBUS | 5.0900e-003 | 4.9500e-003 |
| tblVehicleEF | UBUS | 3.6000e-005 | 5.0000e-005 |
| tblVehicleEF | UBUS | 4.8670e-003 | 4.7320e-003 |
| tblVehicleEF | UBUS | 3.3000e-005 | 4.6000e-005 |
| tblVehicleEF | UBUS | 5.8100e-004 | 3.6400e-004 |
| tblVehicleEF | UBUS | 4.1810e-003 | 2.1220e-003 |
| tblVehicleEF | UBUS | 3.3500e-004 | 2.1200e-004 |
| tblVehicleEF | UBUS | 0.02 | 0.03 |
| tblVehicleEF | UBUS | 8.7200e-004 | 3.4800e-004 |
| tblVehicleEF | UBUS | 0.02 | 0.02 |
| tblVehicleEF | UBUS | 0.01 | 0.01 |
| tblVehicleEF | UBUS | 4.4000e-005 | 3.8000e-005 |
| tblVehicleEF | UBUS | 5.8100e-004 | 3.6400e-004 |
| tblVehicleEF | UBUS | 4.1810e-003 | 2.1220e-003 |
| tblVehicleEF | UBUS | 3.3500e-004 | 2.1200e-004 |
| tblVehicleEF | UBUS | 1.34 | 1.79 |
| tblVehicleEF | UBUS | 8.7200e-004 | 3.4800e-004 |
| tblVehicleEF | UBUS | 0.02 | 0.02 |
| tblVehicleEF | UBUS | 1.31 | 1.76 |
| tblVehicleEF | UBUS | 6.1970e-003 | 5.4470e-003 |
| tblVehicleEF | UBUS | 9.77 | 13.30 |
| tblVehicleEF | UBUS | 0.50 | 0.49 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | UBUS | 1,631.11 | 1,631.09 |
| tblVehicleEF | UBUS | 4.69 | 4.12 |
| tblVehicleEF | UBUS | 0.26 | 0.27 |
| tblVehicleEF | UBUS | 4.2340e-003 | 3.8450e-003 |
| tblVehicleEF | UBUS | 0.70 | 0.68 |
| tblVehicleEF | UBUS | 0.05 | 0.04 |
| tblVehicleEF | UBUS | 5.0900e-003 | 4.9500e-003 |
| tblVehicleEF | UBUS | 3.6000e-005 | 5.0000e-005 |
| tblVehicleEF | UBUS | 4.8670e-003 | 4.7320e-003 |
| tblVehicleEF | UBUS | 3.3000e-005 | 4.6000e-005 |
| tblVehicleEF | UBUS | 1.2500e-004 | 6.3000e-005 |
| tblVehicleEF | UBUS | 3.8940e-003 | 1.9060e-003 |
| tblVehicleEF | UBUS | 7.0000e-005 | 3.8000e-005 |
| tblVehicleEF | UBUS | 0.02 | 0.03 |
| tblVehicleEF | UBUS | 1.2370e-003 | 4.7200e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.02 |
| tblVehicleEF | UBUS | 0.01 | 0.01 |
| tblVehicleEF | UBUS | 4.6000e-005 | 4.1000e-005 |
| tblVehicleEF | UBUS | 1.2500e-004 | 6.3000e-005 |
| tblVehicleEF | UBUS | 3.8940e-003 | 1.9060e-003 |
| tblVehicleEF | UBUS | 7.0000e-005 | 3.8000e-005 |
| tblVehicleEF | UBUS | 1.34 | 1.79 |
| tblVehicleEF | UBUS | 1.2370e-003 | 4.7200e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.03 |
| tblVehicleTrips | WD_TR | 5.44 | 3.75 |
| tblVehicleTrips | WD_TR | 5.44 | 7.20 |
| tblVehicleTrips | WD_TR | 11.26 | 10.40 |
| tblVehicleTrips | WD_TR | 44.32 | 46.50 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

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

| | | | |
|---|---|---|---|
| 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 | 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 | 1.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 1.48 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.48 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

## 2.0 Emissions Summary

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

## 2.1 Overall Construction (Maximum Daily Emission)

### 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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 2.1479 | 26.8906 | 20.4466 | 0.0439 | 8.1547 | 0.9688 | 9.1235 | 3.6263 | 0.8926 | 4.5189 | 0.0000 | 4,433.0593 | 4,433.0593 | 1.0482 | 0.2611 | 4,534.1970 |
| 2023 | 15.0144 | 17.6573 | 26.1007 | 0.0476 | 1.3087 | 0.8660 | 2.1747 | 0.3503 | 0.8315 | 1.1819 | 0.0000 | 4,629.8229 | 4,629.8229 | 0.6373 | 0.0960 | 4,674.3467 |
| **Maximum** | **15.0144** | **26.8906** | **26.1007** | **0.0476** | **8.1547** | **0.9688** | **9.1235** | **3.6263** | **0.8926** | **4.5189** | **0.0000** | **4,629.8229** | **4,629.8229** | **1.0482** | **0.2611** | **4,674.3467** |

### 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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 2.1479 | 26.8906 | 20.4466 | 0.0439 | 3.9531 | 0.1766 | 4.1297 | 1.7090 | 0.1638 | 1.8728 | 0.0000 | 4,433.0593 | 4,433.0593 | 1.0482 | 0.2611 | 4,534.1970 |
| 2023 | 15.0144 | 17.6573 | 26.1007 | 0.0476 | 1.3087 | 0.1395 | 1.4482 | 0.3503 | 0.1337 | 0.4841 | 0.0000 | 4,629.8229 | 4,629.8229 | 0.6373 | 0.0960 | 4,674.3467 |
| **Maximum** | **15.0144** | **26.8906** | **26.1007** | **0.0476** | **3.9531** | **0.1766** | **4.1297** | **1.7090** | **0.1638** | **1.8728** | **0.0000** | **4,629.8229** | **4,629.8229** | **1.0482** | **0.2611** | **4,674.3467** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 44.40 | 82.78 | 50.63 | 48.21 | 82.75 | 58.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 4.4884 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | 0.0000 | 22.1453 | 22.1453 | 0.0213 | 0.0000 | 22.6770 |
| Energy | 9.2800e-003 | 0.0843 | 0.0709 | 5.1000e-004 | | 6.4100e-003 | 6.4100e-003 | | 6.4100e-003 | 6.4100e-003 | | 101.2129 | 101.2129 | 1.9400e-003 | 1.8600e-003 | 101.8144 |
| Mobile | 2.0740 | 2.3526 | 21.1676 | 0.0412 | 5.4183 | 0.0277 | 5.4460 | 1.4433 | 0.0258 | 1.4691 | | 4,432.4044 | 4,432.4044 | 0.2872 | 0.2135 | 4,503.1996 |
| **Total** | **6.5716** | **2.5786** | **33.5311** | **0.0424** | **5.4183** | **0.1023** | **5.5206** | **1.4433** | **0.1004** | **1.5436** | **0.0000** | **4,555.7626** | **4,555.7626** | **0.3104** | **0.2153** | **4,627.6910** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 4.4884 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | 0.0000 | 22.1453 | 22.1453 | 0.0213 | 0.0000 | 22.6770 |
| Energy | 9.2800e-003 | 0.0843 | 0.0709 | 5.1000e-004 | | 6.4100e-003 | 6.4100e-003 | | 6.4100e-003 | 6.4100e-003 | | 101.2129 | 101.2129 | 1.9400e-003 | 1.8600e-003 | 101.8144 |
| Mobile | 2.0740 | 2.3526 | 21.1676 | 0.0412 | 5.4183 | 0.0277 | 5.4460 | 1.4433 | 0.0258 | 1.4691 | | 4,432.4044 | 4,432.4044 | 0.2872 | 0.2135 | 4,503.1996 |
| **Total** | **6.5716** | **2.5786** | **33.5311** | **0.0424** | **5.4183** | **0.1023** | **5.5206** | **1.4433** | **0.1004** | **1.5436** | **0.0000** | **4,555.7626** | **4,555.7626** | **0.3104** | **0.2153** | **4,627.6910** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 6/1/2022 | 7/28/2022 | 6 | 50 | |
| 2 | Site Preparation | Site Preparation | 7/29/2022 | 8/3/2022 | 6 | 5 | |
| 3 | Grading | Grading | 8/4/2022 | 8/20/2022 | 6 | 15 | |
| 4 | Trenching | Trenching | 8/22/2022 | 11/22/2022 | 6 | 80 | |
| 5 | Building Construction | Building Construction | 11/23/2022 | 6/8/2023 | 6 | 170 | |
| 6 | Architectural Coating | Architectural Coating | 4/18/2023 | 10/20/2023 | 6 | 160 | |
| 7 | Paving | Paving | 10/21/2023 | 12/29/2023 | 6 | 60 | |

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 22.5**

**Acres of Paving: 0**

**Residential Indoor: 301,725; Residential Outdoor: 100,575; Non-Residential Indoor: 21,543; Non-Residential Outdoor: 7,181; Striped Parking Area: 864 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 0 | 0.00 | 81 | 0.73 |
| Demolition | Excavators | 2 | 8.00 | 158 | 0.38 |
| Demolition | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |

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

| | | | | | |
|---|---|---|---|---|---|
| Demolition | Skid Steer Loaders | 6 | 8.00 | 65 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 0 | 8.00 | 158 | 0.38 |
| Grading | Graders | 2 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Trenching | Excavators | 2 | 8.00 | 158 | 0.38 |
| Trenching | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 0 | 0.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 0 | 0.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 4 | 8.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 0 | 0.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 0 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 10 | 25.00 | 0.00 | 404.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 5 | 13.00 | 0.00 | 438.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Trenching | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Building Construction | 7 | 118.00 | 21.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 4 | 24.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Demolition - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.7480 | 0.0000 | 1.7480 | 0.2647 | 0.0000 | 0.2647 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.7732 | 18.9741 | 19.5692 | 0.0328 | | 0.8661 | 0.8661 | | 0.7968 | 0.7968 | | 3,177.4443 | 3,177.4443 | 1.0277 | | 3,203.1355 |
| **Total** | **1.7732** | **18.9741** | **19.5692** | **0.0328** | **1.7480** | **0.8661** | **2.6141** | **0.2647** | **0.7968** | **1.0615** | | **3,177.4443** | **3,177.4443** | **1.0277** | | **3,203.1355** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

## 3.2 Demolition - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0312 | 1.1628 | 0.2610 | 4.1500e-003 | 0.1131 | 0.0100 | 0.1231 | 0.0310 | 9.5800e-003 | 0.0406 | | 451.2211 | 451.2211 | 0.0148 | 0.0715 | 472.8882 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0743 | 0.0541 | 0.6164 | 1.7100e-003 | 0.2054 | 1.0700e-003 | 0.2064 | 0.0545 | 9.9000e-004 | 0.0555 | | 173.7264 | 173.7264 | 5.7700e-003 | 5.3700e-003 | 175.4711 |
| **Total** | **0.1055** | **1.2170** | **0.8774** | **5.8600e-003** | **0.3185** | **0.0111** | **0.3295** | **0.0855** | **0.0106** | **0.0960** | | **624.9474** | **624.9474** | **0.0206** | **0.0768** | **648.3593** |

### 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 | | | | | 0.7866 | 0.0000 | 0.7866 | 0.1191 | 0.0000 | 0.1191 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.7732 | 18.9741 | 19.5692 | 0.0328 | | 0.1299 | 0.1299 | | 0.1195 | 0.1195 | 0.0000 | 3,177.4443 | 3,177.4443 | 1.0277 | | 3,203.1355 |
| **Total** | **1.7732** | **18.9741** | **19.5692** | **0.0328** | **0.7866** | **0.1299** | **0.9165** | **0.1191** | **0.1195** | **0.2386** | **0.0000** | **3,177.4443** | **3,177.4443** | **1.0277** | | **3,203.1355** |

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

## 3.2 Demolition - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0312 | 1.1628 | 0.2610 | 4.1500e-003 | 0.1131 | 0.0100 | 0.1231 | 0.0310 | 9.5800e-003 | 0.0406 | | 451.2211 | 451.2211 | 0.0148 | 0.0715 | 472.8882 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0743 | 0.0541 | 0.6164 | 1.7100e-003 | 0.2054 | 1.0700e-003 | 0.2064 | 0.0545 | 9.9000e-004 | 0.0555 | | 173.7264 | 173.7264 | 5.7700e-003 | 5.3700e-003 | 175.4711 |
| **Total** | **0.1055** | **1.2170** | **0.8774** | **5.8600e-003** | **0.3185** | **0.0111** | **0.3295** | **0.0855** | **0.0106** | **0.0960** | | **624.9474** | **624.9474** | **0.0206** | **0.0768** | **648.3593** |

## 3.3 Site Preparation - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1665 | 12.1449 | 8.0579 | 0.0148 | | 0.5976 | 0.5976 | | 0.5498 | 0.5498 | | 1,429.5133 | 1,429.5133 | 0.4623 | | 1,441.0716 |
| **Total** | **1.1665** | **12.1449** | **8.0579** | **0.0148** | **6.5523** | **0.5976** | **7.1499** | **3.3675** | **0.5498** | **3.9173** | | **1,429.5133** | **1,429.5133** | **0.4623** | | **1,441.0716** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

## 3.3 Site Preparation - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0238 | 0.0173 | 0.1973 | 5.5000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.2000e-004 | 0.0178 | | 55.5924 | 55.5924 | 1.8500e-003 | 1.7200e-003 | 56.1508 |
| **Total** | **0.0238** | **0.0173** | **0.1973** | **5.5000e-004** | **0.0657** | **3.4000e-004** | **0.0661** | **0.0174** | **3.2000e-004** | **0.0178** | | **55.5924** | **55.5924** | **1.8500e-003** | **1.7200e-003** | **56.1508** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.9486 | 0.0000 | 2.9486 | 1.5154 | 0.0000 | 1.5154 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1665 | 12.1449 | 8.0579 | 0.0148 | | 0.0896 | 0.0896 | | 0.0825 | 0.0825 | 0.0000 | 1,429.5133 | 1,429.5133 | 0.4623 | | 1,441.0716 |
| **Total** | **1.1665** | **12.1449** | **8.0579** | **0.0148** | **2.9486** | **0.0896** | **3.0382** | **1.5154** | **0.0825** | **1.5978** | **0.0000** | **1,429.5133** | **1,429.5133** | **0.4623** | | **1,441.0716** |

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

## 3.3 Site Preparation - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0238 | 0.0173 | 0.1973 | 5.5000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.2000e-004 | 0.0178 | | 55.5924 | 55.5924 | 1.8500e-003 | 1.7200e-003 | 56.1508 |
| **Total** | **0.0238** | **0.0173** | **0.1973** | **5.5000e-004** | **0.0657** | **3.4000e-004** | **0.0661** | **0.0174** | **3.2000e-004** | **0.0178** | | **55.5924** | **55.5924** | **1.8500e-003** | **1.7200e-003** | **56.1508** |

## 3.4 Grading - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.6392 | 0.0000 | 7.6392 | 3.4860 | 0.0000 | 3.4860 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9965 | 22.6601 | 11.5014 | 0.0280 | | 0.9320 | 0.9320 | | 0.8575 | 0.8575 | | 2,712.0711 | 2,712.0711 | 0.8771 | | 2,733.9996 |
| **Total** | **1.9965** | **22.6601** | **11.5014** | **0.0280** | **7.6392** | **0.9320** | **8.5712** | **3.4860** | **0.8575** | **4.3434** | | **2,712.0711** | **2,712.0711** | **0.8771** | | **2,733.9996** |

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

## 3.4 Grading - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.1128 | 4.2024 | 0.9431 | 0.0150 | 0.4087 | 0.0362 | 0.4449 | 0.1120 | 0.0346 | 0.1467 | | 1,630.6505 | 1,630.6505 | 0.0535 | 0.2583 | 1,708.9524 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0386 | 0.0282 | 0.3206 | 8.9000e-004 | 0.1068 | 5.6000e-004 | 0.1074 | 0.0283 | 5.1000e-004 | 0.0288 | | 90.3377 | 90.3377 | 3.0000e-003 | 2.7900e-003 | 91.2450 |
| **Total** | **0.1514** | **4.2305** | **1.2636** | **0.0159** | **0.5155** | **0.0368** | **0.5522** | **0.1404** | **0.0352** | **0.1755** | | **1,720.9882** | **1,720.9882** | **0.0565** | **0.2611** | **1,800.1974** |

### 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 | | | | | 3.4377 | 0.0000 | 3.4377 | 1.5687 | 0.0000 | 1.5687 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9965 | 22.6601 | 11.5014 | 0.0280 | | 0.1398 | 0.1398 | | 0.1286 | 0.1286 | 0.0000 | 2,712.0711 | 2,712.0711 | 0.8771 | | 2,733.9996 |
| **Total** | **1.9965** | **22.6601** | **11.5014** | **0.0280** | **3.4377** | **0.1398** | **3.5775** | **1.5687** | **0.1286** | **1.6973** | **0.0000** | **2,712.0711** | **2,712.0711** | **0.8771** | | **2,733.9996** |

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

## 3.4 Grading - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.1128 | 4.2024 | 0.9431 | 0.0150 | 0.4087 | 0.0362 | 0.4449 | 0.1120 | 0.0346 | 0.1467 | | 1,630.6505 | 1,630.6505 | 0.0535 | 0.2583 | 1,708.9524 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0386 | 0.0282 | 0.3206 | 8.9000e-004 | 0.1068 | 5.6000e-004 | 0.1074 | 0.0283 | 5.1000e-004 | 0.0288 | | 90.3377 | 90.3377 | 3.0000e-003 | 2.7900e-003 | 91.2450 |
| **Total** | **0.1514** | **4.2305** | **1.2636** | **0.0159** | **0.5155** | **0.0368** | **0.5522** | **0.1404** | **0.0352** | **0.1755** | | **1,720.9882** | **1,720.9882** | **0.0565** | **0.2611** | **1,800.1974** |

## 3.5 Trenching - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0637 | 10.2565 | 15.4621 | 0.0228 | | 0.5323 | 0.5323 | | 0.4897 | 0.4897 | | 2,204.9863 | 2,204.9863 | 0.7131 | | 2,222.8148 |
| **Total** | **1.0637** | **10.2565** | **15.4621** | **0.0228** | | **0.5323** | **0.5323** | | **0.4897** | **0.4897** | | **2,204.9863** | **2,204.9863** | **0.7131** | | **2,222.8148** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

## 3.5 Trenching - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0446 | 0.0325 | 0.3699 | 1.0200e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.9000e-004 | 0.0333 | | 104.2358 | 104.2358 | 3.4600e-003 | 3.2200e-003 | 105.2827 |
| **Total** | **0.0446** | **0.0325** | **0.3699** | **1.0200e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.9000e-004** | **0.0333** | | **104.2358** | **104.2358** | **3.4600e-003** | **3.2200e-003** | **105.2827** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0637 | 10.2565 | 15.4621 | 0.0228 | | 0.0799 | 0.0799 | | 0.0735 | 0.0735 | 0.0000 | 2,204.9863 | 2,204.9863 | 0.7131 | | 2,222.8148 |
| **Total** | **1.0637** | **10.2565** | **15.4621** | **0.0228** | | **0.0799** | **0.0799** | | **0.0735** | **0.0735** | **0.0000** | **2,204.9863** | **2,204.9863** | **0.7131** | | **2,222.8148** |

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

## 3.5 Trenching - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0446 | 0.0325 | 0.3699 | 1.0200e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.9000e-004 | 0.0333 | | 104.2358 | 104.2358 | 3.4600e-003 | 3.2200e-003 | 105.2827 |
| **Total** | **0.0446** | **0.0325** | **0.3699** | **1.0200e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.9000e-004** | **0.0333** | | **104.2358** | **104.2358** | **3.4600e-003** | **3.2200e-003** | **105.2827** |

## 3.6 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1628 | 10.2753 | 12.9551 | 0.0181 | | 0.5641 | 0.5641 | | 0.5241 | 0.5241 | | 1,708.4952 | 1,708.4952 | 0.5103 | | 1,721.2523 |
| **Total** | **1.1628** | **10.2753** | **12.9551** | **0.0181** | | **0.5641** | **0.5641** | | **0.5241** | **0.5241** | | **1,708.4952** | **1,708.4952** | **0.5103** | | **1,721.2523** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

## 3.6 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0448 | 1.1947 | 0.3482 | 4.4500e-003 | 0.1422 | 0.0121 | 0.1543 | 0.0409 | 0.0116 | 0.0525 | | 476.8633 | 476.8633 | 0.0103 | 0.0707 | 498.2013 |
| Worker | 0.3507 | 0.2555 | 2.9096 | 8.0600e-003 | 0.9693 | 5.0700e-003 | 0.9744 | 0.2571 | 4.6600e-003 | 0.2618 | | 819.9884 | 819.9884 | 0.0272 | 0.0254 | 828.2237 |
| **Total** | **0.3955** | **1.4502** | **3.2578** | **0.0125** | **1.1116** | **0.0172** | **1.1287** | **0.2981** | **0.0162** | **0.3143** | | **1,296.8517** | **1,296.8517** | **0.0376** | **0.0961** | **1,326.4250** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1628 | 10.2753 | 12.9551 | 0.0181 | | 0.0846 | 0.0846 | | 0.0786 | 0.0786 | 0.0000 | 1,708.4952 | 1,708.4952 | 0.5103 | | 1,721.2523 |
| **Total** | **1.1628** | **10.2753** | **12.9551** | **0.0181** | | **0.0846** | **0.0846** | | **0.0786** | **0.0786** | **0.0000** | **1,708.4952** | **1,708.4952** | **0.5103** | | **1,721.2523** |

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

## 3.6 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0448 | 1.1947 | 0.3482 | 4.4500e-003 | 0.1422 | 0.0121 | 0.1543 | 0.0409 | 0.0116 | 0.0525 | | 476.8633 | 476.8633 | 0.0103 | 0.0707 | 498.2013 |
| Worker | 0.3507 | 0.2555 | 2.9096 | 8.0600e-003 | 0.9693 | 5.0700e-003 | 0.9744 | 0.2571 | 4.6600e-003 | 0.2618 | | 819.9884 | 819.9884 | 0.0272 | 0.0254 | 828.2237 |
| **Total** | **0.3955** | **1.4502** | **3.2578** | **0.0125** | **1.1116** | **0.0172** | **1.1287** | **0.2981** | **0.0162** | **0.3143** | | **1,296.8517** | **1,296.8517** | **0.0376** | **0.0961** | **1,326.4250** |

## 3.6 Building Construction - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0650 | 9.4826 | 12.8928 | 0.0181 | | 0.4770 | 0.4770 | | 0.4432 | 0.4432 | | 1,709.8454 | 1,709.8454 | 0.5085 | | 1,722.5587 |
| **Total** | **1.0650** | **9.4826** | **12.8928** | **0.0181** | | **0.4770** | **0.4770** | | **0.4432** | **0.4432** | | **1,709.8454** | **1,709.8454** | **0.5085** | | **1,722.5587** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

## 3.6 Building Construction - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0221 | 0.9531 | 0.2975 | 4.2600e-003 | 0.1422 | 5.4800e-003 | 0.1477 | 0.0409 | 5.2400e-003 | 0.0462 | | 457.3214 | 457.3214 | 9.2900e-003 | 0.0677 | 477.7227 |
| Worker | 0.3274 | 0.2262 | 2.7017 | 7.8100e-003 | 0.9693 | 4.8100e-003 | 0.9742 | 0.2571 | 4.4300e-003 | 0.2615 | | 799.0760 | 799.0760 | 0.0247 | 0.0235 | 806.6912 |
| **Total** | **0.3494** | **1.1793** | **2.9991** | **0.0121** | **1.1116** | **0.0103** | **1.1219** | **0.2981** | **9.6700e-003** | **0.3077** | | **1,256.3973** | **1,256.3973** | **0.0339** | **0.0912** | **1,284.4139** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0650 | 9.4826 | 12.8928 | 0.0181 | | 0.0716 | 0.0716 | | 0.0665 | 0.0665 | 0.0000 | 1,709.8454 | 1,709.8454 | 0.5085 | | 1,722.5587 |
| **Total** | **1.0650** | **9.4826** | **12.8928** | **0.0181** | | **0.0716** | **0.0716** | | **0.0665** | **0.0665** | **0.0000** | **1,709.8454** | **1,709.8454** | **0.5085** | | **1,722.5587** |

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

## 3.6 Building Construction - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0221 | 0.9531 | 0.2975 | 4.2600e-003 | 0.1422 | 5.4800e-003 | 0.1477 | 0.0409 | 5.2400e-003 | 0.0462 | | 457.3214 | 457.3214 | 9.2900e-003 | 0.0677 | 477.7227 |
| Worker | 0.3274 | 0.2262 | 2.7017 | 7.8100e-003 | 0.9693 | 4.8100e-003 | 0.9742 | 0.2571 | 4.4300e-003 | 0.2615 | | 799.0760 | 799.0760 | 0.0247 | 0.0235 | 806.6912 |
| **Total** | **0.3494** | **1.1793** | **2.9991** | **0.0121** | **1.1116** | **0.0103** | **1.1219** | **0.2981** | **9.6700e-003** | **0.3077** | | **1,256.3973** | **1,256.3973** | **0.0339** | **0.0912** | **1,284.4139** |

## 3.7 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 12.5113 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0222 | 6.9493 | 9.6593 | 0.0159 | | 0.3777 | 0.3777 | | 0.3777 | 0.3777 | | 1,501.0563 | 1,501.0563 | 0.0898 | | 1,503.3014 |
| **Total** | **13.5335** | **6.9493** | **9.6593** | **0.0159** | | **0.3777** | **0.3777** | | **0.3777** | **0.3777** | | **1,501.0563** | **1,501.0563** | **0.0898** | | **1,503.3014** |

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

## 3.7 Architectural Coating - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0666 | 0.0460 | 0.5495 | 1.5900e-003 | 0.1972 | 9.8000e-004 | 0.1981 | 0.0523 | 9.0000e-004 | 0.0532 | | 162.5239 | 162.5239 | 5.0100e-003 | 4.7800e-003 | 164.0728 |
| **Total** | **0.0666** | **0.0460** | **0.5495** | **1.5900e-003** | **0.1972** | **9.8000e-004** | **0.1981** | **0.0523** | **9.0000e-004** | **0.0532** | | **162.5239** | **162.5239** | **5.0100e-003** | **4.7800e-003** | **164.0728** |

### 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 | 12.5113 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0222 | 6.9493 | 9.6593 | 0.0159 | | 0.0567 | 0.0567 | | 0.0567 | 0.0567 | 0.0000 | 1,501.0563 | 1,501.0563 | 0.0898 | | 1,503.3014 |
| **Total** | **13.5335** | **6.9493** | **9.6593** | **0.0159** | | **0.0567** | **0.0567** | | **0.0567** | **0.0567** | **0.0000** | **1,501.0563** | **1,501.0563** | **0.0898** | | **1,503.3014** |

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

## 3.7 Architectural Coating - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0666 | 0.0460 | 0.5495 | 1.5900e-003 | 0.1972 | 9.8000e-004 | 0.1981 | 0.0523 | 9.0000e-004 | 0.0532 | | 162.5239 | 162.5239 | 5.0100e-003 | 4.7800e-003 | 164.0728 |
| **Total** | **0.0666** | **0.0460** | **0.5495** | **1.5900e-003** | **0.1972** | **9.8000e-004** | **0.1981** | **0.0523** | **9.0000e-004** | **0.0532** | | **162.5239** | **162.5239** | **5.0100e-003** | **4.7800e-003** | **164.0728** |

## 3.8 Paving - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5164 | 5.0958 | 7.2921 | 0.0114 | | 0.2551 | 0.2551 | | 0.2347 | 0.2347 | | 1,103.7921 | 1,103.7921 | 0.3570 | | 1,112.7168 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.5164** | **5.0958** | **7.2921** | **0.0114** | | **0.2551** | **0.2551** | | **0.2347** | **0.2347** | | **1,103.7921** | **1,103.7921** | **0.3570** | | **1,112.7168** |

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

## 3.8 Paving - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0222 | 0.0153 | 0.1832 | 5.3000e-004 | 0.0657 | 3.3000e-004 | 0.0660 | 0.0174 | 3.0000e-004 | 0.0177 | | 54.1746 | 54.1746 | 1.6700e-003 | 1.5900e-003 | 54.6909 |
| **Total** | **0.0222** | **0.0153** | **0.1832** | **5.3000e-004** | **0.0657** | **3.3000e-004** | **0.0660** | **0.0174** | **3.0000e-004** | **0.0177** | | **54.1746** | **54.1746** | **1.6700e-003** | **1.5900e-003** | **54.6909** |

### 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 | 0.5164 | 5.0958 | 7.2921 | 0.0114 | | 0.0383 | 0.0383 | | 0.0352 | 0.0352 | 0.0000 | 1,103.7921 | 1,103.7921 | 0.3570 | | 1,112.7168 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.5164** | **5.0958** | **7.2921** | **0.0114** | | **0.0383** | **0.0383** | | **0.0352** | **0.0352** | **0.0000** | **1,103.7921** | **1,103.7921** | **0.3570** | | **1,112.7168** |

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

### 3.8 Paving - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0222 | 0.0153 | 0.1832 | 5.3000e-004 | 0.0657 | 3.3000e-004 | 0.0660 | 0.0174 | 3.0000e-004 | 0.0177 | | 54.1746 | 54.1746 | 1.6700e-003 | 1.5900e-003 | 54.6909 |
| **Total** | **0.0222** | **0.0153** | **0.1832** | **5.3000e-004** | **0.0657** | **3.3000e-004** | **0.0660** | **0.0174** | **3.0000e-004** | **0.0177** | | **54.1746** | **54.1746** | **1.6700e-003** | **1.5900e-003** | **54.6909** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.0740 | 2.3526 | 21.1676 | 0.0412 | 5.4183 | 0.0277 | 5.4460 | 1.4433 | 0.0258 | 1.4691 | | 4,432.4044 | 4,432.4044 | 0.2872 | 0.2135 | 4,503.1996 |
| Unmitigated | 2.0740 | 2.3526 | 21.1676 | 0.0412 | 5.4183 | 0.0277 | 5.4460 | 1.4433 | 0.0258 | 1.4691 | | 4,432.4044 | 4,432.4044 | 0.2872 | 0.2135 | 4,503.1996 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 281.25 | 368.25 | 306.75 | 686,696 | 686,696 |
| Condo/Townhouse High Rise | 532.80 | 363.34 | 302.66 | 1,098,713 | 1,098,713 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Research & Development | 122.30 | 22.34 | 13.05 | 231,619 | 231,619 |
| Strip Mall | 120.90 | 109.30 | 53.12 | 168,726 | 168,726 |
| Total | 1,057.25 | 863.24 | 675.58 | 2,185,755 | 2,185,755 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Condo/Townhouse High Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Research & Development | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Strip Mall | 9.50 | 7.30 | 7.30 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

## 4.4 Fleet Mix

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

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Condo/Townhouse High Rise | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Parking Lot | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Research & Development | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Strip Mall | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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 | 9.2800e-003 | 0.0843 | 0.0709 | 5.1000e-004 | | 6.4100e-003 | 6.4100e-003 | | 6.4100e-003 | 6.4100e-003 | | 101.2129 | 101.2129 | 1.9400e-003 | 1.8600e-003 | 101.8144 |
| NaturalGas Unmitigated | 9.2800e-003 | 0.0843 | 0.0709 | 5.1000e-004 | | 6.4100e-003 | 6.4100e-003 | | 6.4100e-003 | 6.4100e-003 | | 101.2129 | 101.2129 | 1.9400e-003 | 1.8600e-003 | 101.8144 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Winter

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

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 843.642 | 9.1000e-003 | 0.0827 | 0.0695 | 5.0000e-004 | | 6.2900e-003 | 6.2900e-003 | | 6.2900e-003 | 6.2900e-003 | | 99.2520 | 99.2520 | 1.9000e-003 | 1.8200e-003 | 99.8418 |
| Strip Mall | 16.6685 | 1.8000e-004 | 1.6300e-003 | 1.3700e-003 | 1.0000e-005 | | 1.2000e-004 | 1.2000e-004 | | 1.2000e-004 | 1.2000e-004 | | 1.9610 | 1.9610 | 4.0000e-005 | 4.0000e-005 | 1.9727 |
| **Total** | | **9.2800e-003** | **0.0843** | **0.0709** | **5.1000e-004** | | **6.4100e-003** | **6.4100e-003** | | **6.4100e-003** | **6.4100e-003** | | **101.2130** | **101.2130** | **1.9400e-003** | **1.8600e-003** | **101.8144** |

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 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 |
| 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 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 0.843642 | 9.1000e-003 | 0.0827 | 0.0695 | 5.0000e-004 | | 6.2900e-003 | 6.2900e-003 | | 6.2900e-003 | 6.2900e-003 | | 99.2520 | 99.2520 | 1.9000e-003 | 1.8200e-003 | 99.8418 |
| Strip Mall | 0.0166685 | 1.8000e-004 | 1.6300e-003 | 1.3700e-003 | 1.0000e-005 | | 1.2000e-004 | 1.2000e-004 | | 1.2000e-004 | 1.2000e-004 | | 1.9610 | 1.9610 | 4.0000e-005 | 4.0000e-005 | 1.9727 |
| **Total** | | **9.2800e-003** | **0.0843** | **0.0709** | **5.1000e-004** | | **6.4100e-003** | **6.4100e-003** | | **6.4100e-003** | **6.4100e-003** | | **101.2130** | **101.2130** | **1.9400e-003** | **1.8600e-003** | **101.8144** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

No Hearths Installed

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 4.4884 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | 0.0000 | 22.1453 | 22.1453 | 0.0213 | 0.0000 | 22.6770 |
| Unmitigated | 4.4884 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | 0.0000 | 22.1453 | 22.1453 | 0.0213 | 0.0000 | 22.6770 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.6174 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5011 | | | | | 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 | 0.3699 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | | 22.1453 | 22.1453 | 0.0213 | | 22.6770 |
| **Total** | **4.4884** | **0.1416** | **12.2927** | **6.5000e-004** | | **0.0681** | **0.0681** | | **0.0681** | **0.0681** | **0.0000** | **22.1453** | **22.1453** | **0.0213** | **0.0000** | **22.6770** |

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.6174 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5011 | | | | | 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 | 0.3699 | 0.1416 | 12.2927 | 6.5000e-004 | | 0.0681 | 0.0681 | | 0.0681 | 0.0681 | | 22.1453 | 22.1453 | 0.0213 | | 22.6770 |
| **Total** | **4.4884** | **0.1416** | **12.2927** | **6.5000e-004** | | **0.0681** | **0.0681** | | **0.0681** | **0.0681** | **0.0000** | **22.1453** | **22.1453** | **0.0213** | **0.0000** | **22.6770** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## 10.0 Stationary Equipment

**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

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Annual

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

# 200 Portage Avenue AQ Alternative 3

**Bay Area AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Research & Development | 11.76 | 1000sqft | 0.00 | 11,762.00 | 0 |
| Parking Lot | 36.00 | Space | 0.00 | 14,400.00 | 0 |
| Apartments Mid Rise | 75.00 | Dwelling Unit | 0.00 | 75,000.00 | 215 |
| Condo/Townhouse High Rise | 74.00 | Dwelling Unit | 14.23 | 74,000.00 | 212 |
| Strip Mall | 2.60 | 1000sqft | 0.00 | 2,600.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2024 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Based on new R&D replaced auto (11,762sf), new retail (2,600sf), 74 townhomes, and 75 BMR units. Parking assumptions from proposed project.

Construction Phase - Based on proposed project assumptions for a construction schedule of 18 months and 6 days a week.

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

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

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Trips and VMT - Hauling trip length based on applicant provided information of 16 miles to Zanker Recycling.

Demolition - Based on Alt 3 demolition info for warehouse, vacant retail, and 3040 Park Blv building.

Grading - Based on proposed project assumptions of 2,000 cubic yards of export and 1,500 cubic yards of import.

Architectural Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Vehicle Trips - Trip gen rate reduced to match W-Trans Transportation Analysis

Woodstoves - BAAQMD Regulation 6 Rule 3, No woodburning devices

Area Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Energy Use - All-electric pursuant to the City's All-Electric Mandate and 2019 Energy Reach Code Ordinances: https://www.cityofpaloalto.org/files/assets/public/development-services/green-building-files/2020-all-electric-mandate-summary_final03.31.2020.pdf?t=58748.46

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

Construction Off-road Equipment Mitigation - Pursuant to Palo Alto Comprehensive Plan Polich N-5.5 and Comprehensive Plan EIR Mitigation Measure AIR-2a, comply with BAAQMD Basic Construction Mitigation Measures. All equipment will be equipped with DPFs according to applicant provided information.

Energy Mitigation - Pursuant to Section 150.1(b)14 of the 2019 Building Energy Efficiency Standards, residential uses under three stories must install PV solar panels that generate an amount of electricity equal to expected electricity usage. Percentage solar for townhomes

Water Mitigation - Pursuant to CalGreen 20 percent reduction in indoor water use.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 150.00 | 100.00 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |

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

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstructionPhase | NumDays | 20.00 | 160.00 |
| tblConstructionPhase | NumDays | 300.00 | 170.00 |
| tblConstructionPhase | NumDays | 20.00 | 50.00 |
| tblConstructionPhase | NumDays | 30.00 | 15.00 |
| tblConstructionPhase | NumDays | 20.00 | 60.00 |
| tblConstructionPhase | NumDays | 10.00 | 5.00 |

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

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblEnergyUse | NT24E | 3,054.10 | 6,209.10 |
| tblEnergyUse | NT24E | 3,054.10 | 6,209.10 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | T24E | 70.89 | 1,602.68 |
| tblEnergyUse | T24E | 70.89 | 1,602.68 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 11.25 | 0.00 |
| tblFireplaces | NumberGas | 11.10 | 0.00 |
| tblFireplaces | NumberNoFireplace | 3.00 | 0.00 |
| tblFireplaces | NumberNoFireplace | 2.96 | 0.00 |
| tblFireplaces | NumberWood | 12.75 | 0.00 |
| tblFireplaces | NumberWood | 12.58 | 0.00 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |

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

| | | | |
|---|---|---|---|
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | HHD | 7.5620e-003 | 7.4300e-003 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDA | 0.55 | 0.56 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LDT2 | 0.19 | 0.19 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | LHD2 | 5.6230e-003 | 5.8250e-003 |
| tblFleetMix | MCY | 0.03 | 0.03 |

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

| | | | |
|---|---|---|---|
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MCY | 0.03 | 0.03 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MH | 2.8710e-003 | 2.6380e-003 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | OBUS | 9.8700e-004 | 9.5200e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |
| tblFleetMix | SBUS | 8.3400e-004 | 8.7500e-004 |

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

| | | | |
|---|---|---|---|
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblFleetMix | UBUS | 5.6800e-004 | 5.0500e-004 |
| tblGrading | MaterialExported | 0.00 | 2,000.00 |
| tblGrading | MaterialImported | 0.00 | 1,500.00 |
| tblLandUse | LandUseSquareFeet | 11,760.00 | 11,762.00 |
| tblLandUse | LotAcreage | 0.27 | 0.00 |
| tblLandUse | LotAcreage | 0.32 | 0.00 |
| tblLandUse | LotAcreage | 1.97 | 0.00 |
| tblLandUse | LotAcreage | 1.16 | 14.23 |
| tblLandUse | LotAcreage | 0.06 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |

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

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 0.05 | 0.05 |
| tblVehicleEF | HHD | 6.31 | 6.22 |
| tblVehicleEF | HHD | 0.41 | 0.41 |
| tblVehicleEF | HHD | 6.7080e-003 | 6.5970e-003 |
| tblVehicleEF | HHD | 1,044.30 | 920.46 |
| tblVehicleEF | HHD | 1,409.50 | 1,226.16 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.16 | 0.15 |
| tblVehicleEF | HHD | 0.22 | 0.19 |
| tblVehicleEF | HHD | 6.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 5.37 | 5.15 |
| tblVehicleEF | HHD | 2.68 | 2.51 |
| tblVehicleEF | HHD | 2.34 | 2.35 |
| tblVehicleEF | HHD | 2.6250e-003 | 2.1390e-003 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.04 | 0.04 |
| tblVehicleEF | HHD | 0.02 | 0.02 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 2.5120e-003 | 2.0460e-003 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 8.8720e-003 | 8.8850e-003 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 2.0000e-006 | 1.0000e-006 |
| tblVehicleEF | HHD | 1.1000e-004 | 7.1000e-005 |
| tblVehicleEF | HHD | 0.43 | 0.42 |
| tblVehicleEF | HHD | 0.03 | 0.02 |
| tblVehicleEF | HHD | 5.0000e-005 | 3.2000e-005 |
| tblVehicleEF | HHD | 9.7210e-003 | 8.5600e-003 |
| tblVehicleEF | HHD | 0.01 | 0.01 |
| tblVehicleEF | HHD | 2.0000e-006 | 1.0000e-006 |
| tblVehicleEF | HHD | 1.1000e-004 | 7.1000e-005 |
| tblVehicleEF | HHD | 0.49 | 0.48 |
| tblVehicleEF | HHD | 0.08 | 0.07 |
| tblVehicleEF | HHD | 5.0000e-005 | 3.2000e-005 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 0.05 | 0.05 |
| tblVehicleEF | HHD | 6.22 | 6.14 |
| tblVehicleEF | HHD | 0.41 | 0.41 |
| tblVehicleEF | HHD | 6.1240e-003 | 6.0260e-003 |
| tblVehicleEF | HHD | 1,032.50 | 909.37 |
| tblVehicleEF | HHD | 1,409.50 | 1,226.17 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.16 | 0.14 |
| tblVehicleEF | HHD | 0.22 | 0.19 |
| tblVehicleEF | HHD | 6.0000e-006 | 1.0000e-006 |
| tblVehicleEF | HHD | 5.14 | 4.91 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 2.58 | 2.41 |
| tblVehicleEF | HHD | 2.34 | 2.35 |
| tblVehicleEF | HHD | 2.2960e-003 | 1.8850e-003 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.04 | 0.04 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 2.1970e-003 | 1.8030e-003 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 8.8720e-003 | 8.8850e-003 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 6.0000e-006 | 3.0000e-006 |
| tblVehicleEF | HHD | 1.2000e-004 | 7.6000e-005 |
| tblVehicleEF | HHD | 0.45 | 0.44 |
| tblVehicleEF | HHD | 3.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 0.03 | 0.02 |
| tblVehicleEF | HHD | 4.9000e-005 | 3.1000e-005 |
| tblVehicleEF | HHD | 9.6110e-003 | 8.4570e-003 |
| tblVehicleEF | HHD | 0.01 | 0.01 |
| tblVehicleEF | HHD | 6.0000e-006 | 3.0000e-006 |
| tblVehicleEF | HHD | 1.2000e-004 | 7.6000e-005 |
| tblVehicleEF | HHD | 0.52 | 0.51 |
| tblVehicleEF | HHD | 3.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 0.08 | 0.07 |
| tblVehicleEF | HHD | 4.9000e-005 | 3.1000e-005 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 0.05 | 0.05 |
| tblVehicleEF | HHD | 6.43 | 6.34 |
| tblVehicleEF | HHD | 0.41 | 0.41 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 7.2200e-003 | 7.0940e-003 |
| tblVehicleEF | HHD | 1,060.60 | 935.76 |
| tblVehicleEF | HHD | 1,409.50 | 1,226.16 |
| tblVehicleEF | HHD | 0.07 | 0.06 |
| tblVehicleEF | HHD | 0.17 | 0.15 |
| tblVehicleEF | HHD | 0.22 | 0.19 |
| tblVehicleEF | HHD | 7.0000e-006 | 2.0000e-006 |
| tblVehicleEF | HHD | 5.70 | 5.48 |
| tblVehicleEF | HHD | 2.72 | 2.55 |
| tblVehicleEF | HHD | 2.34 | 2.35 |
| tblVehicleEF | HHD | 3.0800e-003 | 2.4890e-003 |
| tblVehicleEF | HHD | 0.06 | 0.06 |
| tblVehicleEF | HHD | 0.04 | 0.04 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 2.9470e-003 | 2.3820e-003 |
| tblVehicleEF | HHD | 0.03 | 0.03 |
| tblVehicleEF | HHD | 8.8720e-003 | 8.8850e-003 |
| tblVehicleEF | HHD | 0.02 | 0.02 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 1.1900e-004 | 7.4000e-005 |
| tblVehicleEF | HHD | 0.39 | 0.38 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |
| tblVehicleEF | HHD | 0.03 | 0.02 |
| tblVehicleEF | HHD | 5.5000e-005 | 3.6000e-005 |
| tblVehicleEF | HHD | 9.8740e-003 | 8.7030e-003 |
| tblVehicleEF | HHD | 0.01 | 0.01 |
| tblVehicleEF | HHD | 1.1900e-004 | 7.4000e-005 |
| tblVehicleEF | HHD | 0.45 | 0.44 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | HHD | 0.08 | 0.07 |
| tblVehicleEF | HHD | 5.5000e-005 | 3.6000e-005 |
| tblVehicleEF | LDA | 1.8030e-003 | 9.9700e-004 |
| tblVehicleEF | LDA | 0.05 | 0.03 |
| tblVehicleEF | LDA | 0.53 | 0.41 |
| tblVehicleEF | LDA | 2.14 | 1.75 |
| tblVehicleEF | LDA | 243.15 | 216.43 |
| tblVehicleEF | LDA | 51.36 | 45.51 |
| tblVehicleEF | LDA | 4.0780e-003 | 3.2370e-003 |
| tblVehicleEF | LDA | 0.02 | 0.02 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.17 | 0.13 |
| tblVehicleEF | LDA | 1.3590e-003 | 9.5700e-004 |
| tblVehicleEF | LDA | 1.7100e-003 | 1.3050e-003 |
| tblVehicleEF | LDA | 1.2520e-003 | 8.8100e-004 |
| tblVehicleEF | LDA | 1.5720e-003 | 1.2000e-003 |
| tblVehicleEF | LDA | 0.04 | 0.02 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 6.8130e-003 | 3.4110e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.20 | 0.12 |
| tblVehicleEF | LDA | 2.3570e-003 | 2.0020e-003 |
| tblVehicleEF | LDA | 4.9800e-004 | 4.2100e-004 |
| tblVehicleEF | LDA | 0.04 | 0.02 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 9.8980e-003 | 4.9540e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDA | 0.22 | 0.14 |
| tblVehicleEF | LDA | 2.0410e-003 | 1.1320e-003 |
| tblVehicleEF | LDA | 0.04 | 0.03 |
| tblVehicleEF | LDA | 0.62 | 0.48 |
| tblVehicleEF | LDA | 1.67 | 1.37 |
| tblVehicleEF | LDA | 261.90 | 233.11 |
| tblVehicleEF | LDA | 50.46 | 44.78 |
| tblVehicleEF | LDA | 3.8010e-003 | 3.0210e-003 |
| tblVehicleEF | LDA | 0.02 | 0.02 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.15 | 0.11 |
| tblVehicleEF | LDA | 1.3590e-003 | 9.5700e-004 |
| tblVehicleEF | LDA | 1.7100e-003 | 1.3050e-003 |
| tblVehicleEF | LDA | 1.2520e-003 | 8.8100e-004 |
| tblVehicleEF | LDA | 1.5720e-003 | 1.2000e-003 |
| tblVehicleEF | LDA | 0.08 | 0.06 |
| tblVehicleEF | LDA | 0.10 | 0.07 |
| tblVehicleEF | LDA | 0.07 | 0.05 |
| tblVehicleEF | LDA | 7.5810e-003 | 3.7980e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.17 | 0.10 |
| tblVehicleEF | LDA | 2.5390e-003 | 2.1560e-003 |
| tblVehicleEF | LDA | 4.8900e-004 | 4.1400e-004 |
| tblVehicleEF | LDA | 0.08 | 0.06 |
| tblVehicleEF | LDA | 0.10 | 0.07 |
| tblVehicleEF | LDA | 0.07 | 0.05 |
| tblVehicleEF | LDA | 0.01 | 5.5180e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.18 | 0.11 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDA | 1.7350e-003 | 9.5900e-004 |
| tblVehicleEF | LDA | 0.05 | 0.03 |
| tblVehicleEF | LDA | 0.52 | 0.40 |
| tblVehicleEF | LDA | 2.51 | 2.05 |
| tblVehicleEF | LDA | 240.83 | 214.36 |
| tblVehicleEF | LDA | 52.04 | 46.06 |
| tblVehicleEF | LDA | 4.3320e-003 | 3.4360e-003 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.03 | 0.02 |
| tblVehicleEF | LDA | 0.19 | 0.14 |
| tblVehicleEF | LDA | 1.3590e-003 | 9.5700e-004 |
| tblVehicleEF | LDA | 1.7100e-003 | 1.3050e-003 |
| tblVehicleEF | LDA | 1.2520e-003 | 8.8100e-004 |
| tblVehicleEF | LDA | 1.5720e-003 | 1.2000e-003 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 6.6420e-003 | 3.3230e-003 |
| tblVehicleEF | LDA | 0.03 | 0.03 |
| tblVehicleEF | LDA | 0.23 | 0.14 |
| tblVehicleEF | LDA | 2.3340e-003 | 1.9830e-003 |
| tblVehicleEF | LDA | 5.0500e-004 | 4.2600e-004 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 0.09 | 0.07 |
| tblVehicleEF | LDA | 0.02 | 0.01 |
| tblVehicleEF | LDA | 9.6480e-003 | 4.8250e-003 |
| tblVehicleEF | LDA | 0.03 | 0.03 |
| tblVehicleEF | LDA | 0.25 | 0.15 |
| tblVehicleEF | LDT1 | 3.5970e-003 | 1.6590e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT1 | 0.06 | 0.04 |
| tblVehicleEF | LDT1 | 0.83 | 0.53 |
| tblVehicleEF | LDT1 | 2.33 | 1.89 |
| tblVehicleEF | LDT1 | 290.85 | 261.54 |
| tblVehicleEF | LDT1 | 62.04 | 55.47 |
| tblVehicleEF | LDT1 | 5.8260e-003 | 3.7700e-003 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.07 | 0.03 |
| tblVehicleEF | LDT1 | 0.22 | 0.16 |
| tblVehicleEF | LDT1 | 1.6800e-003 | 1.0980e-003 |
| tblVehicleEF | LDT1 | 2.1590e-003 | 1.5030e-003 |
| tblVehicleEF | LDT1 | 1.5460e-003 | 1.0100e-003 |
| tblVehicleEF | LDT1 | 1.9850e-003 | 1.3820e-003 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.15 | 0.10 |
| tblVehicleEF | LDT1 | 0.06 | 0.04 |
| tblVehicleEF | LDT1 | 0.02 | 6.4330e-003 |
| tblVehicleEF | LDT1 | 0.08 | 0.06 |
| tblVehicleEF | LDT1 | 0.29 | 0.16 |
| tblVehicleEF | LDT1 | 2.8200e-003 | 2.4180e-003 |
| tblVehicleEF | LDT1 | 6.0100e-004 | 5.1300e-004 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.15 | 0.10 |
| tblVehicleEF | LDT1 | 0.06 | 0.04 |
| tblVehicleEF | LDT1 | 0.02 | 9.3860e-003 |
| tblVehicleEF | LDT1 | 0.08 | 0.06 |
| tblVehicleEF | LDT1 | 0.32 | 0.18 |
| tblVehicleEF | LDT1 | 4.0330e-003 | 1.8690e-003 |
| tblVehicleEF | LDT1 | 0.05 | 0.03 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT1 | 0.97 | 0.62 |
| tblVehicleEF | LDT1 | 1.80 | 1.47 |
| tblVehicleEF | LDT1 | 310.00 | 278.57 |
| tblVehicleEF | LDT1 | 61.02 | 54.67 |
| tblVehicleEF | LDT1 | 5.3700e-003 | 3.4810e-003 |
| tblVehicleEF | LDT1 | 0.02 | 0.02 |
| tblVehicleEF | LDT1 | 0.06 | 0.03 |
| tblVehicleEF | LDT1 | 0.20 | 0.14 |
| tblVehicleEF | LDT1 | 1.6800e-003 | 1.0980e-003 |
| tblVehicleEF | LDT1 | 2.1590e-003 | 1.5030e-003 |
| tblVehicleEF | LDT1 | 1.5460e-003 | 1.0100e-003 |
| tblVehicleEF | LDT1 | 1.9850e-003 | 1.3820e-003 |
| tblVehicleEF | LDT1 | 0.18 | 0.11 |
| tblVehicleEF | LDT1 | 0.17 | 0.11 |
| tblVehicleEF | LDT1 | 0.13 | 0.09 |
| tblVehicleEF | LDT1 | 0.02 | 7.1380e-003 |
| tblVehicleEF | LDT1 | 0.07 | 0.05 |
| tblVehicleEF | LDT1 | 0.24 | 0.13 |
| tblVehicleEF | LDT1 | 3.0050e-003 | 2.5760e-003 |
| tblVehicleEF | LDT1 | 5.9200e-004 | 5.0600e-004 |
| tblVehicleEF | LDT1 | 0.18 | 0.11 |
| tblVehicleEF | LDT1 | 0.17 | 0.11 |
| tblVehicleEF | LDT1 | 0.13 | 0.09 |
| tblVehicleEF | LDT1 | 0.02 | 0.01 |
| tblVehicleEF | LDT1 | 0.07 | 0.05 |
| tblVehicleEF | LDT1 | 0.26 | 0.15 |
| tblVehicleEF | LDT1 | 3.4780e-003 | 1.5990e-003 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.83 | 0.52 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT1 | 2.72 | 2.21 |
| tblVehicleEF | LDT1 | 288.56 | 259.51 |
| tblVehicleEF | LDT1 | 62.81 | 56.08 |
| tblVehicleEF | LDT1 | 6.2230e-003 | 4.0260e-003 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.07 | 0.04 |
| tblVehicleEF | LDT1 | 0.24 | 0.17 |
| tblVehicleEF | LDT1 | 1.6800e-003 | 1.0980e-003 |
| tblVehicleEF | LDT1 | 2.1590e-003 | 1.5030e-003 |
| tblVehicleEF | LDT1 | 1.5460e-003 | 1.0100e-003 |
| tblVehicleEF | LDT1 | 1.9850e-003 | 1.3820e-003 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.16 | 0.10 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.01 | 6.2720e-003 |
| tblVehicleEF | LDT1 | 0.10 | 0.07 |
| tblVehicleEF | LDT1 | 0.33 | 0.18 |
| tblVehicleEF | LDT1 | 2.7980e-003 | 2.4000e-003 |
| tblVehicleEF | LDT1 | 6.0900e-004 | 5.1900e-004 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.16 | 0.10 |
| tblVehicleEF | LDT1 | 0.03 | 0.02 |
| tblVehicleEF | LDT1 | 0.02 | 9.1510e-003 |
| tblVehicleEF | LDT1 | 0.10 | 0.07 |
| tblVehicleEF | LDT1 | 0.36 | 0.20 |
| tblVehicleEF | LDT2 | 2.8370e-003 | 1.6620e-003 |
| tblVehicleEF | LDT2 | 0.06 | 0.04 |
| tblVehicleEF | LDT2 | 0.70 | 0.54 |
| tblVehicleEF | LDT2 | 2.73 | 2.32 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT2 | 309.94 | 268.87 |
| tblVehicleEF | LDT2 | 66.52 | 57.46 |
| tblVehicleEF | LDT2 | 5.5470e-003 | 3.9670e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.06 | 0.03 |
| tblVehicleEF | LDT2 | 0.25 | 0.17 |
| tblVehicleEF | LDT2 | 1.3900e-003 | 1.0510e-003 |
| tblVehicleEF | LDT2 | 1.7260e-003 | 1.3650e-003 |
| tblVehicleEF | LDT2 | 1.2790e-003 | 9.6800e-004 |
| tblVehicleEF | LDT2 | 1.5870e-003 | 1.2550e-003 |
| tblVehicleEF | LDT2 | 0.05 | 0.04 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.01 | 6.2280e-003 |
| tblVehicleEF | LDT2 | 0.06 | 0.05 |
| tblVehicleEF | LDT2 | 0.29 | 0.18 |
| tblVehicleEF | LDT2 | 3.0040e-003 | 2.4870e-003 |
| tblVehicleEF | LDT2 | 6.4500e-004 | 5.3100e-004 |
| tblVehicleEF | LDT2 | 0.05 | 0.04 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.02 | 9.0460e-003 |
| tblVehicleEF | LDT2 | 0.06 | 0.05 |
| tblVehicleEF | LDT2 | 0.31 | 0.20 |
| tblVehicleEF | LDT2 | 3.1980e-003 | 1.8780e-003 |
| tblVehicleEF | LDT2 | 0.05 | 0.04 |
| tblVehicleEF | LDT2 | 0.83 | 0.63 |
| tblVehicleEF | LDT2 | 2.12 | 1.80 |
| tblVehicleEF | LDT2 | 328.46 | 284.72 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT2 | 65.35 | 56.49 |
| tblVehicleEF | LDT2 | 5.1490e-003 | 3.6920e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.05 | 0.03 |
| tblVehicleEF | LDT2 | 0.22 | 0.15 |
| tblVehicleEF | LDT2 | 1.3900e-003 | 1.0510e-003 |
| tblVehicleEF | LDT2 | 1.7260e-003 | 1.3650e-003 |
| tblVehicleEF | LDT2 | 1.2790e-003 | 9.6800e-004 |
| tblVehicleEF | LDT2 | 1.5870e-003 | 1.2550e-003 |
| tblVehicleEF | LDT2 | 0.13 | 0.10 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.01 | 6.9100e-003 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.23 | 0.15 |
| tblVehicleEF | LDT2 | 3.1840e-003 | 2.6330e-003 |
| tblVehicleEF | LDT2 | 6.3400e-004 | 5.2200e-004 |
| tblVehicleEF | LDT2 | 0.13 | 0.10 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.11 | 0.09 |
| tblVehicleEF | LDT2 | 0.02 | 0.01 |
| tblVehicleEF | LDT2 | 0.05 | 0.05 |
| tblVehicleEF | LDT2 | 0.26 | 0.17 |
| tblVehicleEF | LDT2 | 2.7360e-003 | 1.6010e-003 |
| tblVehicleEF | LDT2 | 0.07 | 0.05 |
| tblVehicleEF | LDT2 | 0.70 | 0.53 |
| tblVehicleEF | LDT2 | 3.20 | 2.71 |
| tblVehicleEF | LDT2 | 307.71 | 266.97 |
| tblVehicleEF | LDT2 | 67.39 | 58.20 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LDT2 | 5.9000e-003 | 4.2130e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.06 | 0.04 |
| tblVehicleEF | LDT2 | 0.27 | 0.18 |
| tblVehicleEF | LDT2 | 1.3900e-003 | 1.0510e-003 |
| tblVehicleEF | LDT2 | 1.7260e-003 | 1.3650e-003 |
| tblVehicleEF | LDT2 | 1.2790e-003 | 9.6800e-004 |
| tblVehicleEF | LDT2 | 1.5870e-003 | 1.2550e-003 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.01 | 6.0730e-003 |
| tblVehicleEF | LDT2 | 0.07 | 0.06 |
| tblVehicleEF | LDT2 | 0.32 | 0.21 |
| tblVehicleEF | LDT2 | 2.9830e-003 | 2.4690e-003 |
| tblVehicleEF | LDT2 | 6.5300e-004 | 5.3800e-004 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.12 | 0.09 |
| tblVehicleEF | LDT2 | 0.03 | 0.02 |
| tblVehicleEF | LDT2 | 0.02 | 8.8200e-003 |
| tblVehicleEF | LDT2 | 0.07 | 0.06 |
| tblVehicleEF | LDT2 | 0.35 | 0.23 |
| tblVehicleEF | LHD1 | 4.9130e-003 | 4.1460e-003 |
| tblVehicleEF | LHD1 | 8.2090e-003 | 5.4760e-003 |
| tblVehicleEF | LHD1 | 0.01 | 9.1240e-003 |
| tblVehicleEF | LHD1 | 0.18 | 0.18 |
| tblVehicleEF | LHD1 | 0.75 | 0.50 |
| tblVehicleEF | LHD1 | 1.03 | 0.89 |
| tblVehicleEF | LHD1 | 8.95 | 8.34 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 779.84 | 702.21 |
| tblVehicleEF | LHD1 | 11.30 | 10.04 |
| tblVehicleEF | LHD1 | 7.7200e-004 | 7.4600e-004 |
| tblVehicleEF | LHD1 | 0.04 | 0.04 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 0.06 | 0.05 |
| tblVehicleEF | LHD1 | 0.77 | 0.37 |
| tblVehicleEF | LHD1 | 0.30 | 0.23 |
| tblVehicleEF | LHD1 | 8.7600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 9.8210e-003 | 9.9180e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.8050e-003 |
| tblVehicleEF | LHD1 | 2.4300e-004 | 2.1000e-004 |
| tblVehicleEF | LHD1 | 8.3800e-004 | 8.8900e-004 |
| tblVehicleEF | LHD1 | 2.4550e-003 | 2.4790e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.4230e-003 |
| tblVehicleEF | LHD1 | 2.2300e-004 | 1.9300e-004 |
| tblVehicleEF | LHD1 | 1.7240e-003 | 1.3190e-003 |
| tblVehicleEF | LHD1 | 0.07 | 0.06 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 9.5300e-004 | 7.7900e-004 |
| tblVehicleEF | LHD1 | 0.09 | 0.08 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.07 | 0.04 |
| tblVehicleEF | LHD1 | 8.7000e-005 | 8.1000e-005 |
| tblVehicleEF | LHD1 | 7.6100e-003 | 6.8460e-003 |
| tblVehicleEF | LHD1 | 1.1200e-004 | 9.9000e-005 |
| tblVehicleEF | LHD1 | 1.7240e-003 | 1.3190e-003 |
| tblVehicleEF | LHD1 | 0.07 | 0.06 |
| tblVehicleEF | LHD1 | 0.03 | 0.02 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 9.5300e-004 | 7.7900e-004 |
| tblVehicleEF | LHD1 | 0.12 | 0.09 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.07 | 0.05 |
| tblVehicleEF | LHD1 | 4.9280e-003 | 4.1590e-003 |
| tblVehicleEF | LHD1 | 8.4050e-003 | 5.5600e-003 |
| tblVehicleEF | LHD1 | 0.01 | 8.5890e-003 |
| tblVehicleEF | LHD1 | 0.18 | 0.18 |
| tblVehicleEF | LHD1 | 0.77 | 0.51 |
| tblVehicleEF | LHD1 | 0.95 | 0.83 |
| tblVehicleEF | LHD1 | 8.95 | 8.34 |
| tblVehicleEF | LHD1 | 779.87 | 702.22 |
| tblVehicleEF | LHD1 | 11.16 | 9.92 |
| tblVehicleEF | LHD1 | 7.7600e-004 | 7.4900e-004 |
| tblVehicleEF | LHD1 | 0.04 | 0.04 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 0.06 | 0.05 |
| tblVehicleEF | LHD1 | 0.74 | 0.35 |
| tblVehicleEF | LHD1 | 0.28 | 0.21 |
| tblVehicleEF | LHD1 | 8.7600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 9.8210e-003 | 9.9180e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.8050e-003 |
| tblVehicleEF | LHD1 | 2.4300e-004 | 2.1000e-004 |
| tblVehicleEF | LHD1 | 8.3800e-004 | 8.8900e-004 |
| tblVehicleEF | LHD1 | 2.4550e-003 | 2.4790e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.4230e-003 |
| tblVehicleEF | LHD1 | 2.2300e-004 | 1.9300e-004 |
| tblVehicleEF | LHD1 | 4.0880e-003 | 3.0750e-003 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 2.0160e-003 | 1.6020e-003 |
| tblVehicleEF | LHD1 | 0.10 | 0.08 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.06 | 0.04 |
| tblVehicleEF | LHD1 | 8.7000e-005 | 8.1000e-005 |
| tblVehicleEF | LHD1 | 7.6100e-003 | 6.8460e-003 |
| tblVehicleEF | LHD1 | 1.1000e-004 | 9.8000e-005 |
| tblVehicleEF | LHD1 | 4.0880e-003 | 3.0750e-003 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |
| tblVehicleEF | LHD1 | 0.03 | 0.02 |
| tblVehicleEF | LHD1 | 2.0160e-003 | 1.6020e-003 |
| tblVehicleEF | LHD1 | 0.12 | 0.09 |
| tblVehicleEF | LHD1 | 0.20 | 0.19 |
| tblVehicleEF | LHD1 | 0.07 | 0.05 |
| tblVehicleEF | LHD1 | 4.9010e-003 | 4.1360e-003 |
| tblVehicleEF | LHD1 | 8.0620e-003 | 5.4110e-003 |
| tblVehicleEF | LHD1 | 0.01 | 9.5570e-003 |
| tblVehicleEF | LHD1 | 0.18 | 0.18 |
| tblVehicleEF | LHD1 | 0.74 | 0.50 |
| tblVehicleEF | LHD1 | 1.10 | 0.95 |
| tblVehicleEF | LHD1 | 8.95 | 8.34 |
| tblVehicleEF | LHD1 | 779.81 | 702.20 |
| tblVehicleEF | LHD1 | 11.43 | 10.14 |
| tblVehicleEF | LHD1 | 7.7000e-004 | 7.4400e-004 |
| tblVehicleEF | LHD1 | 0.05 | 0.04 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 0.06 | 0.05 |
| tblVehicleEF | LHD1 | 0.79 | 0.38 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD1 | 0.32 | 0.24 |
| tblVehicleEF | LHD1 | 8.7600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 9.8210e-003 | 9.9180e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.8050e-003 |
| tblVehicleEF | LHD1 | 2.4300e-004 | 2.1000e-004 |
| tblVehicleEF | LHD1 | 8.3800e-004 | 8.8900e-004 |
| tblVehicleEF | LHD1 | 2.4550e-003 | 2.4790e-003 |
| tblVehicleEF | LHD1 | 0.01 | 7.4230e-003 |
| tblVehicleEF | LHD1 | 2.2300e-004 | 1.9300e-004 |
| tblVehicleEF | LHD1 | 7.6200e-004 | 6.1800e-004 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |
| tblVehicleEF | LHD1 | 0.02 | 0.02 |
| tblVehicleEF | LHD1 | 4.5100e-004 | 3.8000e-004 |
| tblVehicleEF | LHD1 | 0.09 | 0.08 |
| tblVehicleEF | LHD1 | 0.23 | 0.21 |
| tblVehicleEF | LHD1 | 0.07 | 0.05 |
| tblVehicleEF | LHD1 | 8.7000e-005 | 8.1000e-005 |
| tblVehicleEF | LHD1 | 7.6090e-003 | 6.8460e-003 |
| tblVehicleEF | LHD1 | 1.1300e-004 | 1.0000e-004 |
| tblVehicleEF | LHD1 | 7.6200e-004 | 6.1800e-004 |
| tblVehicleEF | LHD1 | 0.08 | 0.06 |
| tblVehicleEF | LHD1 | 0.03 | 0.02 |
| tblVehicleEF | LHD1 | 4.5100e-004 | 3.8000e-004 |
| tblVehicleEF | LHD1 | 0.11 | 0.09 |
| tblVehicleEF | LHD1 | 0.23 | 0.21 |
| tblVehicleEF | LHD1 | 0.08 | 0.05 |
| tblVehicleEF | LHD2 | 3.1310e-003 | 2.5800e-003 |
| tblVehicleEF | LHD2 | 6.6950e-003 | 5.3930e-003 |
| tblVehicleEF | LHD2 | 7.9080e-003 | 5.0230e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.14 | 0.13 |
| tblVehicleEF | LHD2 | 0.60 | 0.50 |
| tblVehicleEF | LHD2 | 0.61 | 0.49 |
| tblVehicleEF | LHD2 | 13.91 | 13.05 |
| tblVehicleEF | LHD2 | 762.51 | 686.39 |
| tblVehicleEF | LHD2 | 7.76 | 6.59 |
| tblVehicleEF | LHD2 | 1.7310e-003 | 1.6650e-003 |
| tblVehicleEF | LHD2 | 0.07 | 0.06 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.10 | 0.08 |
| tblVehicleEF | LHD2 | 0.82 | 0.42 |
| tblVehicleEF | LHD2 | 0.18 | 0.13 |
| tblVehicleEF | LHD2 | 1.4140e-003 | 1.4850e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.2400e-004 | 1.0500e-004 |
| tblVehicleEF | LHD2 | 1.3520e-003 | 1.4200e-003 |
| tblVehicleEF | LHD2 | 2.6870e-003 | 2.7080e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 1.1400e-004 | 9.6000e-005 |
| tblVehicleEF | LHD2 | 8.8300e-004 | 6.0600e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 5.0400e-004 | 3.8500e-004 |
| tblVehicleEF | LHD2 | 0.11 | 0.10 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 1.3300e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 7.3640e-003 | 6.6220e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 7.7000e-005 | 6.5000e-005 |
| tblVehicleEF | LHD2 | 8.8300e-004 | 6.0600e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.02 |
| tblVehicleEF | LHD2 | 5.0400e-004 | 3.8500e-004 |
| tblVehicleEF | LHD2 | 0.13 | 0.11 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 3.1400e-003 | 2.5870e-003 |
| tblVehicleEF | LHD2 | 6.7700e-003 | 5.4280e-003 |
| tblVehicleEF | LHD2 | 7.4420e-003 | 4.7300e-003 |
| tblVehicleEF | LHD2 | 0.14 | 0.13 |
| tblVehicleEF | LHD2 | 0.61 | 0.50 |
| tblVehicleEF | LHD2 | 0.56 | 0.46 |
| tblVehicleEF | LHD2 | 13.91 | 13.05 |
| tblVehicleEF | LHD2 | 762.52 | 686.40 |
| tblVehicleEF | LHD2 | 7.68 | 6.53 |
| tblVehicleEF | LHD2 | 1.7330e-003 | 1.6660e-003 |
| tblVehicleEF | LHD2 | 0.07 | 0.06 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.10 | 0.08 |
| tblVehicleEF | LHD2 | 0.78 | 0.40 |
| tblVehicleEF | LHD2 | 0.17 | 0.12 |
| tblVehicleEF | LHD2 | 1.4140e-003 | 1.4850e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.2400e-004 | 1.0500e-004 |
| tblVehicleEF | LHD2 | 1.3520e-003 | 1.4200e-003 |
| tblVehicleEF | LHD2 | 2.6870e-003 | 2.7080e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 1.1400e-004 | 9.6000e-005 |
| tblVehicleEF | LHD2 | 2.0840e-003 | 1.3910e-003 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.0620e-003 | 7.8000e-004 |
| tblVehicleEF | LHD2 | 0.11 | 0.10 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 1.3300e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 7.3640e-003 | 6.6220e-003 |
| tblVehicleEF | LHD2 | 7.6000e-005 | 6.5000e-005 |
| tblVehicleEF | LHD2 | 2.0840e-003 | 1.3910e-003 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.02 |
| tblVehicleEF | LHD2 | 1.0620e-003 | 7.8000e-004 |
| tblVehicleEF | LHD2 | 0.13 | 0.11 |
| tblVehicleEF | LHD2 | 0.09 | 0.06 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 3.1230e-003 | 2.5730e-003 |
| tblVehicleEF | LHD2 | 6.6390e-003 | 5.3660e-003 |
| tblVehicleEF | LHD2 | 8.2870e-003 | 5.2600e-003 |
| tblVehicleEF | LHD2 | 0.14 | 0.13 |
| tblVehicleEF | LHD2 | 0.60 | 0.50 |
| tblVehicleEF | LHD2 | 0.65 | 0.53 |
| tblVehicleEF | LHD2 | 13.91 | 13.05 |
| tblVehicleEF | LHD2 | 762.50 | 686.39 |
| tblVehicleEF | LHD2 | 7.83 | 6.64 |
| tblVehicleEF | LHD2 | 1.7290e-003 | 1.6640e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.07 | 0.06 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.10 | 0.08 |
| tblVehicleEF | LHD2 | 0.83 | 0.42 |
| tblVehicleEF | LHD2 | 0.19 | 0.14 |
| tblVehicleEF | LHD2 | 1.4140e-003 | 1.4850e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 1.2400e-004 | 1.0500e-004 |
| tblVehicleEF | LHD2 | 1.3520e-003 | 1.4200e-003 |
| tblVehicleEF | LHD2 | 2.6870e-003 | 2.7080e-003 |
| tblVehicleEF | LHD2 | 0.01 | 0.01 |
| tblVehicleEF | LHD2 | 1.1400e-004 | 9.6000e-005 |
| tblVehicleEF | LHD2 | 4.0800e-004 | 3.0300e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.01 |
| tblVehicleEF | LHD2 | 2.4500e-004 | 1.9200e-004 |
| tblVehicleEF | LHD2 | 0.11 | 0.10 |
| tblVehicleEF | LHD2 | 0.10 | 0.07 |
| tblVehicleEF | LHD2 | 0.04 | 0.02 |
| tblVehicleEF | LHD2 | 1.3300e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 7.3640e-003 | 6.6220e-003 |
| tblVehicleEF | LHD2 | 7.8000e-005 | 6.6000e-005 |
| tblVehicleEF | LHD2 | 4.0800e-004 | 3.0300e-004 |
| tblVehicleEF | LHD2 | 0.04 | 0.03 |
| tblVehicleEF | LHD2 | 0.02 | 0.02 |
| tblVehicleEF | LHD2 | 2.4500e-004 | 1.9200e-004 |
| tblVehicleEF | LHD2 | 0.13 | 0.11 |
| tblVehicleEF | LHD2 | 0.10 | 0.07 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | LHD2 | 0.05 | 0.03 |
| tblVehicleEF | MCY | 0.34 | 0.33 |
| tblVehicleEF | MCY | 0.26 | 0.25 |
| tblVehicleEF | MCY | 19.59 | 18.37 |
| tblVehicleEF | MCY | 9.12 | 9.28 |
| tblVehicleEF | MCY | 214.39 | 213.76 |
| tblVehicleEF | MCY | 61.37 | 59.74 |
| tblVehicleEF | MCY | 0.07 | 0.07 |
| tblVehicleEF | MCY | 0.02 | 0.02 |
| tblVehicleEF | MCY | 1.16 | 1.15 |
| tblVehicleEF | MCY | 0.27 | 0.27 |
| tblVehicleEF | MCY | 2.0760e-003 | 2.2080e-003 |
| tblVehicleEF | MCY | 3.0330e-003 | 2.8780e-003 |
| tblVehicleEF | MCY | 1.9410e-003 | 2.0600e-003 |
| tblVehicleEF | MCY | 2.8520e-003 | 2.6930e-003 |
| tblVehicleEF | MCY | 0.82 | 0.81 |
| tblVehicleEF | MCY | 0.70 | 0.64 |
| tblVehicleEF | MCY | 0.48 | 0.46 |
| tblVehicleEF | MCY | 2.30 | 2.22 |
| tblVehicleEF | MCY | 0.56 | 0.45 |
| tblVehicleEF | MCY | 1.97 | 1.91 |
| tblVehicleEF | MCY | 2.1220e-003 | 2.1150e-003 |
| tblVehicleEF | MCY | 6.0700e-004 | 5.9100e-004 |
| tblVehicleEF | MCY | 0.82 | 0.81 |
| tblVehicleEF | MCY | 0.70 | 0.64 |
| tblVehicleEF | MCY | 0.48 | 0.46 |
| tblVehicleEF | MCY | 2.85 | 2.78 |
| tblVehicleEF | MCY | 0.56 | 0.45 |
| tblVehicleEF | MCY | 2.15 | 2.08 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MCY | 0.33 | 0.32 |
| tblVehicleEF | MCY | 0.21 | 0.21 |
| tblVehicleEF | MCY | 18.64 | 17.56 |
| tblVehicleEF | MCY | 7.85 | 7.92 |
| tblVehicleEF | MCY | 212.58 | 212.21 |
| tblVehicleEF | MCY | 58.18 | 56.50 |
| tblVehicleEF | MCY | 0.06 | 0.06 |
| tblVehicleEF | MCY | 0.01 | 0.01 |
| tblVehicleEF | MCY | 1.02 | 1.01 |
| tblVehicleEF | MCY | 0.25 | 0.25 |
| tblVehicleEF | MCY | 2.0760e-003 | 2.2080e-003 |
| tblVehicleEF | MCY | 3.0330e-003 | 2.8780e-003 |
| tblVehicleEF | MCY | 1.9410e-003 | 2.0600e-003 |
| tblVehicleEF | MCY | 2.8520e-003 | 2.6930e-003 |
| tblVehicleEF | MCY | 2.28 | 2.23 |
| tblVehicleEF | MCY | 0.94 | 0.87 |
| tblVehicleEF | MCY | 1.35 | 1.28 |
| tblVehicleEF | MCY | 2.21 | 2.15 |
| tblVehicleEF | MCY | 0.52 | 0.42 |
| tblVehicleEF | MCY | 1.62 | 1.58 |
| tblVehicleEF | MCY | 2.1040e-003 | 2.1000e-003 |
| tblVehicleEF | MCY | 5.7600e-004 | 5.5900e-004 |
| tblVehicleEF | MCY | 2.28 | 2.23 |
| tblVehicleEF | MCY | 0.94 | 0.87 |
| tblVehicleEF | MCY | 1.35 | 1.28 |
| tblVehicleEF | MCY | 2.74 | 2.69 |
| tblVehicleEF | MCY | 0.52 | 0.42 |
| tblVehicleEF | MCY | 1.76 | 1.72 |
| tblVehicleEF | MCY | 0.35 | 0.34 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MCY | 0.30 | 0.29 |
| tblVehicleEF | MCY | 21.17 | 19.76 |
| tblVehicleEF | MCY | 10.46 | 10.66 |
| tblVehicleEF | MCY | 217.24 | 216.26 |
| tblVehicleEF | MCY | 64.56 | 62.93 |
| tblVehicleEF | MCY | 0.07 | 0.07 |
| tblVehicleEF | MCY | 0.02 | 0.02 |
| tblVehicleEF | MCY | 1.25 | 1.23 |
| tblVehicleEF | MCY | 0.29 | 0.29 |
| tblVehicleEF | MCY | 2.0760e-003 | 2.2080e-003 |
| tblVehicleEF | MCY | 3.0330e-003 | 2.8780e-003 |
| tblVehicleEF | MCY | 1.9410e-003 | 2.0600e-003 |
| tblVehicleEF | MCY | 2.8520e-003 | 2.6930e-003 |
| tblVehicleEF | MCY | 0.27 | 0.27 |
| tblVehicleEF | MCY | 0.83 | 0.74 |
| tblVehicleEF | MCY | 0.17 | 0.17 |
| tblVehicleEF | MCY | 2.39 | 2.30 |
| tblVehicleEF | MCY | 0.66 | 0.55 |
| tblVehicleEF | MCY | 2.30 | 2.21 |
| tblVehicleEF | MCY | 2.1500e-003 | 2.1400e-003 |
| tblVehicleEF | MCY | 6.3900e-004 | 6.2300e-004 |
| tblVehicleEF | MCY | 0.27 | 0.27 |
| tblVehicleEF | MCY | 0.83 | 0.74 |
| tblVehicleEF | MCY | 0.17 | 0.17 |
| tblVehicleEF | MCY | 2.96 | 2.87 |
| tblVehicleEF | MCY | 0.66 | 0.55 |
| tblVehicleEF | MCY | 2.50 | 2.40 |
| tblVehicleEF | MDV | 3.3270e-003 | 1.7560e-003 |
| tblVehicleEF | MDV | 0.07 | 0.04 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MDV | 0.75 | 0.54 |
| tblVehicleEF | MDV | 3.01 | 2.36 |
| tblVehicleEF | MDV | 375.57 | 324.64 |
| tblVehicleEF | MDV | 79.81 | 68.19 |
| tblVehicleEF | MDV | 7.5320e-003 | 5.2880e-003 |
| tblVehicleEF | MDV | 0.03 | 0.02 |
| tblVehicleEF | MDV | 0.07 | 0.03 |
| tblVehicleEF | MDV | 0.30 | 0.18 |
| tblVehicleEF | MDV | 1.4750e-003 | 1.0550e-003 |
| tblVehicleEF | MDV | 1.8190e-003 | 1.3680e-003 |
| tblVehicleEF | MDV | 1.3600e-003 | 9.7300e-004 |
| tblVehicleEF | MDV | 1.6730e-003 | 1.2580e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.06 | 0.06 |
| tblVehicleEF | MDV | 0.01 | 6.7850e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.35 | 0.20 |
| tblVehicleEF | MDV | 3.6390e-003 | 3.0040e-003 |
| tblVehicleEF | MDV | 7.7400e-004 | 6.3100e-004 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.06 | 0.06 |
| tblVehicleEF | MDV | 0.02 | 9.8300e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.38 | 0.22 |
| tblVehicleEF | MDV | 3.7530e-003 | 1.9850e-003 |
| tblVehicleEF | MDV | 0.06 | 0.04 |
| tblVehicleEF | MDV | 0.88 | 0.63 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MDV | 2.33 | 1.84 |
| tblVehicleEF | MDV | 394.37 | 340.28 |
| tblVehicleEF | MDV | 78.49 | 67.18 |
| tblVehicleEF | MDV | 7.0800e-003 | 5.0040e-003 |
| tblVehicleEF | MDV | 0.03 | 0.02 |
| tblVehicleEF | MDV | 0.06 | 0.03 |
| tblVehicleEF | MDV | 0.26 | 0.16 |
| tblVehicleEF | MDV | 1.4750e-003 | 1.0550e-003 |
| tblVehicleEF | MDV | 1.8190e-003 | 1.3680e-003 |
| tblVehicleEF | MDV | 1.3600e-003 | 9.7300e-004 |
| tblVehicleEF | MDV | 1.6730e-003 | 1.2580e-003 |
| tblVehicleEF | MDV | 0.15 | 0.13 |
| tblVehicleEF | MDV | 0.14 | 0.11 |
| tblVehicleEF | MDV | 0.13 | 0.11 |
| tblVehicleEF | MDV | 0.02 | 7.5250e-003 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.29 | 0.17 |
| tblVehicleEF | MDV | 3.8210e-003 | 3.1480e-003 |
| tblVehicleEF | MDV | 7.6100e-004 | 6.2100e-004 |
| tblVehicleEF | MDV | 0.15 | 0.13 |
| tblVehicleEF | MDV | 0.14 | 0.11 |
| tblVehicleEF | MDV | 0.13 | 0.11 |
| tblVehicleEF | MDV | 0.02 | 0.01 |
| tblVehicleEF | MDV | 0.06 | 0.05 |
| tblVehicleEF | MDV | 0.31 | 0.18 |
| tblVehicleEF | MDV | 3.2110e-003 | 1.6900e-003 |
| tblVehicleEF | MDV | 0.08 | 0.05 |
| tblVehicleEF | MDV | 0.75 | 0.53 |
| tblVehicleEF | MDV | 3.53 | 2.77 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MDV | 373.29 | 322.76 |
| tblVehicleEF | MDV | 80.81 | 68.96 |
| tblVehicleEF | MDV | 7.9370e-003 | 5.5430e-003 |
| tblVehicleEF | MDV | 0.03 | 0.02 |
| tblVehicleEF | MDV | 0.08 | 0.04 |
| tblVehicleEF | MDV | 0.32 | 0.20 |
| tblVehicleEF | MDV | 1.4750e-003 | 1.0550e-003 |
| tblVehicleEF | MDV | 1.8190e-003 | 1.3680e-003 |
| tblVehicleEF | MDV | 1.3600e-003 | 9.7300e-004 |
| tblVehicleEF | MDV | 1.6730e-003 | 1.2580e-003 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.01 | 6.6150e-003 |
| tblVehicleEF | MDV | 0.07 | 0.06 |
| tblVehicleEF | MDV | 0.40 | 0.23 |
| tblVehicleEF | MDV | 3.6170e-003 | 2.9860e-003 |
| tblVehicleEF | MDV | 7.8300e-004 | 6.3800e-004 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.13 | 0.10 |
| tblVehicleEF | MDV | 0.03 | 0.03 |
| tblVehicleEF | MDV | 0.02 | 9.5820e-003 |
| tblVehicleEF | MDV | 0.07 | 0.06 |
| tblVehicleEF | MDV | 0.43 | 0.25 |
| tblVehicleEF | MH | 9.2590e-003 | 5.0570e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 0.88 | 0.32 |
| tblVehicleEF | MH | 2.01 | 1.63 |
| tblVehicleEF | MH | 1,500.18 | 1,351.69 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MH | 17.93 | 15.45 |
| tblVehicleEF | MH | 0.06 | 0.05 |
| tblVehicleEF | MH | 0.03 | 0.03 |
| tblVehicleEF | MH | 1.34 | 1.09 |
| tblVehicleEF | MH | 0.24 | 0.24 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.5200e-004 | 2.0900e-004 |
| tblVehicleEF | MH | 3.2840e-003 | 3.3000e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.3200e-004 | 1.9300e-004 |
| tblVehicleEF | MH | 0.56 | 0.31 |
| tblVehicleEF | MH | 0.05 | 0.03 |
| tblVehicleEF | MH | 0.21 | 0.13 |
| tblVehicleEF | MH | 0.06 | 0.04 |
| tblVehicleEF | MH | 0.01 | 5.4940e-003 |
| tblVehicleEF | MH | 0.09 | 0.07 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 1.7700e-004 | 1.5300e-004 |
| tblVehicleEF | MH | 0.56 | 0.31 |
| tblVehicleEF | MH | 0.05 | 0.03 |
| tblVehicleEF | MH | 0.21 | 0.13 |
| tblVehicleEF | MH | 0.08 | 0.05 |
| tblVehicleEF | MH | 0.01 | 5.4940e-003 |
| tblVehicleEF | MH | 0.10 | 0.08 |
| tblVehicleEF | MH | 9.5620e-003 | 5.1780e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 0.92 | 0.32 |
| tblVehicleEF | MH | 1.82 | 1.48 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MH | 1,500.24 | 1,351.71 |
| tblVehicleEF | MH | 17.62 | 15.20 |
| tblVehicleEF | MH | 0.06 | 0.05 |
| tblVehicleEF | MH | 0.03 | 0.03 |
| tblVehicleEF | MH | 1.27 | 1.04 |
| tblVehicleEF | MH | 0.22 | 0.22 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.5200e-004 | 2.0900e-004 |
| tblVehicleEF | MH | 3.2840e-003 | 3.3000e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.3200e-004 | 1.9300e-004 |
| tblVehicleEF | MH | 1.32 | 0.73 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.46 | 0.28 |
| tblVehicleEF | MH | 0.06 | 0.04 |
| tblVehicleEF | MH | 0.01 | 5.3430e-003 |
| tblVehicleEF | MH | 0.08 | 0.07 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 1.7400e-004 | 1.5000e-004 |
| tblVehicleEF | MH | 1.32 | 0.73 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.46 | 0.28 |
| tblVehicleEF | MH | 0.08 | 0.05 |
| tblVehicleEF | MH | 0.01 | 5.3430e-003 |
| tblVehicleEF | MH | 0.09 | 0.08 |
| tblVehicleEF | MH | 9.0400e-003 | 4.9670e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 0.86 | 0.31 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MH | 2.17 | 1.75 |
| tblVehicleEF | MH | 1,500.14 | 1,351.68 |
| tblVehicleEF | MH | 18.20 | 15.66 |
| tblVehicleEF | MH | 0.06 | 0.05 |
| tblVehicleEF | MH | 0.03 | 0.03 |
| tblVehicleEF | MH | 1.37 | 1.11 |
| tblVehicleEF | MH | 0.26 | 0.25 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.5200e-004 | 2.0900e-004 |
| tblVehicleEF | MH | 3.2840e-003 | 3.3000e-003 |
| tblVehicleEF | MH | 0.02 | 0.02 |
| tblVehicleEF | MH | 2.3200e-004 | 1.9300e-004 |
| tblVehicleEF | MH | 0.24 | 0.15 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.10 | 0.07 |
| tblVehicleEF | MH | 0.06 | 0.04 |
| tblVehicleEF | MH | 0.01 | 5.9510e-003 |
| tblVehicleEF | MH | 0.10 | 0.08 |
| tblVehicleEF | MH | 0.01 | 0.01 |
| tblVehicleEF | MH | 1.8000e-004 | 1.5500e-004 |
| tblVehicleEF | MH | 0.24 | 0.15 |
| tblVehicleEF | MH | 0.06 | 0.03 |
| tblVehicleEF | MH | 0.10 | 0.07 |
| tblVehicleEF | MH | 0.08 | 0.05 |
| tblVehicleEF | MH | 0.01 | 5.9510e-003 |
| tblVehicleEF | MH | 0.10 | 0.09 |
| tblVehicleEF | MHD | 3.2680e-003 | 3.2270e-003 |
| tblVehicleEF | MHD | 1.5920e-003 | 9.3800e-004 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 8.3460e-003 | 7.0270e-003 |
| tblVehicleEF | MHD | 0.39 | 0.40 |
| tblVehicleEF | MHD | 0.22 | 0.15 |
| tblVehicleEF | MHD | 0.97 | 0.73 |
| tblVehicleEF | MHD | 77.14 | 70.46 |
| tblVehicleEF | MHD | 1,063.76 | 968.31 |
| tblVehicleEF | MHD | 8.30 | 7.11 |
| tblVehicleEF | MHD | 0.01 | 0.01 |
| tblVehicleEF | MHD | 0.14 | 0.13 |
| tblVehicleEF | MHD | 6.5730e-003 | 6.4400e-003 |
| tblVehicleEF | MHD | 0.45 | 0.38 |
| tblVehicleEF | MHD | 1.43 | 1.43 |
| tblVehicleEF | MHD | 1.75 | 1.78 |
| tblVehicleEF | MHD | 3.7700e-004 | 1.6900e-004 |
| tblVehicleEF | MHD | 6.9020e-003 | 6.9630e-003 |
| tblVehicleEF | MHD | 1.0000e-004 | 9.0000e-005 |
| tblVehicleEF | MHD | 3.6100e-004 | 1.6100e-004 |
| tblVehicleEF | MHD | 6.5980e-003 | 6.6560e-003 |
| tblVehicleEF | MHD | 9.2000e-005 | 8.3000e-005 |
| tblVehicleEF | MHD | 3.2200e-004 | 2.2800e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 1.8400e-004 | 1.4600e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.04 | 0.03 |
| tblVehicleEF | MHD | 7.3100e-004 | 6.6800e-004 |
| tblVehicleEF | MHD | 0.01 | 9.2240e-003 |
| tblVehicleEF | MHD | 8.2000e-005 | 7.0000e-005 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 3.2200e-004 | 2.2800e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 1.8400e-004 | 1.4600e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.05 | 0.04 |
| tblVehicleEF | MHD | 3.0860e-003 | 3.0510e-003 |
| tblVehicleEF | MHD | 1.6370e-003 | 9.5900e-004 |
| tblVehicleEF | MHD | 7.8280e-003 | 6.6030e-003 |
| tblVehicleEF | MHD | 0.33 | 0.34 |
| tblVehicleEF | MHD | 0.23 | 0.15 |
| tblVehicleEF | MHD | 0.89 | 0.67 |
| tblVehicleEF | MHD | 77.11 | 70.04 |
| tblVehicleEF | MHD | 1,063.77 | 968.32 |
| tblVehicleEF | MHD | 8.16 | 7.00 |
| tblVehicleEF | MHD | 0.01 | 0.01 |
| tblVehicleEF | MHD | 0.14 | 0.13 |
| tblVehicleEF | MHD | 6.2730e-003 | 6.1400e-003 |
| tblVehicleEF | MHD | 0.44 | 0.37 |
| tblVehicleEF | MHD | 1.38 | 1.38 |
| tblVehicleEF | MHD | 1.74 | 1.77 |
| tblVehicleEF | MHD | 3.2200e-004 | 1.4600e-004 |
| tblVehicleEF | MHD | 6.9020e-003 | 6.9630e-003 |
| tblVehicleEF | MHD | 1.0000e-004 | 9.0000e-005 |
| tblVehicleEF | MHD | 3.0800e-004 | 1.4000e-004 |
| tblVehicleEF | MHD | 6.5980e-003 | 6.6560e-003 |
| tblVehicleEF | MHD | 9.2000e-005 | 8.3000e-005 |
| tblVehicleEF | MHD | 7.7400e-004 | 5.2800e-004 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 4.0200e-004 | 3.0000e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.04 | 0.03 |
| tblVehicleEF | MHD | 7.3100e-004 | 6.6400e-004 |
| tblVehicleEF | MHD | 0.01 | 9.2240e-003 |
| tblVehicleEF | MHD | 8.1000e-005 | 6.9000e-005 |
| tblVehicleEF | MHD | 7.7400e-004 | 5.2800e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 4.0200e-004 | 3.0000e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.04 | 0.04 |
| tblVehicleEF | MHD | 3.4470e-003 | 3.3980e-003 |
| tblVehicleEF | MHD | 1.5590e-003 | 9.2200e-004 |
| tblVehicleEF | MHD | 8.7440e-003 | 7.3520e-003 |
| tblVehicleEF | MHD | 0.45 | 0.45 |
| tblVehicleEF | MHD | 0.22 | 0.14 |
| tblVehicleEF | MHD | 1.04 | 0.78 |
| tblVehicleEF | MHD | 77.29 | 71.13 |
| tblVehicleEF | MHD | 1,063.75 | 968.31 |
| tblVehicleEF | MHD | 8.43 | 7.20 |
| tblVehicleEF | MHD | 0.01 | 0.01 |
| tblVehicleEF | MHD | 0.14 | 0.13 |
| tblVehicleEF | MHD | 6.8340e-003 | 6.6960e-003 |
| tblVehicleEF | MHD | 0.47 | 0.40 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | MHD | 1.46 | 1.46 |
| tblVehicleEF | MHD | 1.75 | 1.78 |
| tblVehicleEF | MHD | 4.5400e-004 | 2.0000e-004 |
| tblVehicleEF | MHD | 6.9020e-003 | 6.9630e-003 |
| tblVehicleEF | MHD | 1.0000e-004 | 9.0000e-005 |
| tblVehicleEF | MHD | 4.3500e-004 | 1.9200e-004 |
| tblVehicleEF | MHD | 6.5980e-003 | 6.6560e-003 |
| tblVehicleEF | MHD | 9.2000e-005 | 8.3000e-005 |
| tblVehicleEF | MHD | 1.4700e-004 | 1.1500e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 8.6000e-005 | 7.2000e-005 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.05 | 0.04 |
| tblVehicleEF | MHD | 7.3300e-004 | 6.7400e-004 |
| tblVehicleEF | MHD | 0.01 | 9.2240e-003 |
| tblVehicleEF | MHD | 8.3000e-005 | 7.1000e-005 |
| tblVehicleEF | MHD | 1.4700e-004 | 1.1500e-004 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.02 |
| tblVehicleEF | MHD | 8.6000e-005 | 7.2000e-005 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.02 | 0.01 |
| tblVehicleEF | MHD | 0.05 | 0.04 |
| tblVehicleEF | OBUS | 7.5460e-003 | 7.3320e-003 |
| tblVehicleEF | OBUS | 4.6420e-003 | 2.4610e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.61 | 0.69 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 0.54 | 0.29 |
| tblVehicleEF | OBUS | 2.05 | 1.68 |
| tblVehicleEF | OBUS | 94.83 | 102.80 |
| tblVehicleEF | OBUS | 1,366.37 | 1,219.51 |
| tblVehicleEF | OBUS | 16.54 | 14.05 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 0.13 | 0.12 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.38 | 0.46 |
| tblVehicleEF | OBUS | 1.41 | 1.41 |
| tblVehicleEF | OBUS | 1.01 | 1.11 |
| tblVehicleEF | OBUS | 1.2600e-004 | 1.5300e-004 |
| tblVehicleEF | OBUS | 7.6120e-003 | 8.0870e-003 |
| tblVehicleEF | OBUS | 1.6300e-004 | 1.5700e-004 |
| tblVehicleEF | OBUS | 1.2100e-004 | 1.4600e-004 |
| tblVehicleEF | OBUS | 7.2680e-003 | 7.7230e-003 |
| tblVehicleEF | OBUS | 1.5000e-004 | 1.4500e-004 |
| tblVehicleEF | OBUS | 1.2070e-003 | 1.0910e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 5.7100e-004 | 5.3900e-004 |
| tblVehicleEF | OBUS | 0.03 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.10 | 0.08 |
| tblVehicleEF | OBUS | 9.0100e-004 | 9.7600e-004 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 1.6400e-004 | 1.3900e-004 |
| tblVehicleEF | OBUS | 1.2070e-003 | 1.0910e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 0.06 | 0.07 |
| tblVehicleEF | OBUS | 5.7100e-004 | 5.3900e-004 |
| tblVehicleEF | OBUS | 0.04 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.11 | 0.09 |
| tblVehicleEF | OBUS | 7.6420e-003 | 7.4450e-003 |
| tblVehicleEF | OBUS | 4.8080e-003 | 2.5400e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.60 | 0.68 |
| tblVehicleEF | OBUS | 0.56 | 0.30 |
| tblVehicleEF | OBUS | 1.87 | 1.53 |
| tblVehicleEF | OBUS | 93.70 | 101.54 |
| tblVehicleEF | OBUS | 1,366.40 | 1,219.52 |
| tblVehicleEF | OBUS | 16.22 | 13.79 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 0.13 | 0.12 |
| tblVehicleEF | OBUS | 0.02 | 0.01 |
| tblVehicleEF | OBUS | 0.36 | 0.44 |
| tblVehicleEF | OBUS | 1.34 | 1.35 |
| tblVehicleEF | OBUS | 1.00 | 1.09 |
| tblVehicleEF | OBUS | 1.1200e-004 | 1.3600e-004 |
| tblVehicleEF | OBUS | 7.6120e-003 | 8.0870e-003 |
| tblVehicleEF | OBUS | 1.6300e-004 | 1.5700e-004 |
| tblVehicleEF | OBUS | 1.0700e-004 | 1.3000e-004 |
| tblVehicleEF | OBUS | 7.2680e-003 | 7.7230e-003 |
| tblVehicleEF | OBUS | 1.5000e-004 | 1.4500e-004 |
| tblVehicleEF | OBUS | 2.7510e-003 | 2.4450e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.06 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 1.1940e-003 | 1.0970e-003 |
| tblVehicleEF | OBUS | 0.03 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.09 | 0.08 |
| tblVehicleEF | OBUS | 8.9100e-004 | 9.6400e-004 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 1.6000e-004 | 1.3600e-004 |
| tblVehicleEF | OBUS | 2.7510e-003 | 2.4450e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.07 | 0.07 |
| tblVehicleEF | OBUS | 1.1940e-003 | 1.0970e-003 |
| tblVehicleEF | OBUS | 0.04 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 0.10 | 0.08 |
| tblVehicleEF | OBUS | 7.4290e-003 | 7.1920e-003 |
| tblVehicleEF | OBUS | 4.5240e-003 | 2.4030e-003 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.62 | 0.69 |
| tblVehicleEF | OBUS | 0.53 | 0.29 |
| tblVehicleEF | OBUS | 2.21 | 1.81 |
| tblVehicleEF | OBUS | 96.39 | 104.53 |
| tblVehicleEF | OBUS | 1,366.34 | 1,219.50 |
| tblVehicleEF | OBUS | 16.80 | 14.27 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 0.13 | 0.12 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.41 | 0.49 |
| tblVehicleEF | OBUS | 1.44 | 1.44 |
| tblVehicleEF | OBUS | 1.02 | 1.12 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | OBUS | 1.4600e-004 | 1.7600e-004 |
| tblVehicleEF | OBUS | 7.6120e-003 | 8.0870e-003 |
| tblVehicleEF | OBUS | 1.6300e-004 | 1.5700e-004 |
| tblVehicleEF | OBUS | 1.3900e-004 | 1.6900e-004 |
| tblVehicleEF | OBUS | 7.2680e-003 | 7.7230e-003 |
| tblVehicleEF | OBUS | 1.5000e-004 | 1.4500e-004 |
| tblVehicleEF | OBUS | 6.1800e-004 | 5.8900e-004 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.05 |
| tblVehicleEF | OBUS | 2.8000e-004 | 2.7400e-004 |
| tblVehicleEF | OBUS | 0.03 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.06 |
| tblVehicleEF | OBUS | 0.10 | 0.09 |
| tblVehicleEF | OBUS | 9.1600e-004 | 9.9200e-004 |
| tblVehicleEF | OBUS | 0.01 | 0.01 |
| tblVehicleEF | OBUS | 1.6600e-004 | 1.4100e-004 |
| tblVehicleEF | OBUS | 6.1800e-004 | 5.8900e-004 |
| tblVehicleEF | OBUS | 0.02 | 0.02 |
| tblVehicleEF | OBUS | 0.06 | 0.06 |
| tblVehicleEF | OBUS | 2.8000e-004 | 2.7400e-004 |
| tblVehicleEF | OBUS | 0.04 | 0.02 |
| tblVehicleEF | OBUS | 0.05 | 0.06 |
| tblVehicleEF | OBUS | 0.11 | 0.09 |
| tblVehicleEF | SBUS | 0.05 | 0.06 |
| tblVehicleEF | SBUS | 4.9990e-003 | 3.4080e-003 |
| tblVehicleEF | SBUS | 4.1290e-003 | 4.8910e-003 |
| tblVehicleEF | SBUS | 2.09 | 2.56 |
| tblVehicleEF | SBUS | 0.41 | 0.29 |
| tblVehicleEF | SBUS | 0.60 | 0.68 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 334.38 | 316.42 |
| tblVehicleEF | SBUS | 1,023.89 | 936.84 |
| tblVehicleEF | SBUS | 3.46 | 3.97 |
| tblVehicleEF | SBUS | 0.05 | 0.04 |
| tblVehicleEF | SBUS | 0.13 | 0.12 |
| tblVehicleEF | SBUS | 3.9630e-003 | 4.9690e-003 |
| tblVehicleEF | SBUS | 3.05 | 2.32 |
| tblVehicleEF | SBUS | 4.00 | 2.57 |
| tblVehicleEF | SBUS | 1.06 | 1.41 |
| tblVehicleEF | SBUS | 2.8790e-003 | 1.5510e-003 |
| tblVehicleEF | SBUS | 0.01 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.6000e-005 | 5.9000e-005 |
| tblVehicleEF | SBUS | 2.7540e-003 | 1.4840e-003 |
| tblVehicleEF | SBUS | 2.7460e-003 | 2.7130e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.2000e-005 | 5.4000e-005 |
| tblVehicleEF | SBUS | 3.7600e-004 | 5.4600e-004 |
| tblVehicleEF | SBUS | 3.8150e-003 | 5.4730e-003 |
| tblVehicleEF | SBUS | 0.22 | 0.26 |
| tblVehicleEF | SBUS | 1.7100e-004 | 2.7600e-004 |
| tblVehicleEF | SBUS | 0.07 | 0.05 |
| tblVehicleEF | SBUS | 7.6050e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.03 |
| tblVehicleEF | SBUS | 3.1800e-003 | 3.0130e-003 |
| tblVehicleEF | SBUS | 9.7680e-003 | 8.9520e-003 |
| tblVehicleEF | SBUS | 3.4000e-005 | 3.9000e-005 |
| tblVehicleEF | SBUS | 3.7600e-004 | 5.4600e-004 |
| tblVehicleEF | SBUS | 3.8150e-003 | 5.4730e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 0.31 | 0.38 |
| tblVehicleEF | SBUS | 1.7100e-004 | 2.7600e-004 |
| tblVehicleEF | SBUS | 0.08 | 0.06 |
| tblVehicleEF | SBUS | 7.6050e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.03 | 0.03 |
| tblVehicleEF | SBUS | 0.05 | 0.06 |
| tblVehicleEF | SBUS | 5.0750e-003 | 3.4610e-003 |
| tblVehicleEF | SBUS | 3.4710e-003 | 4.1100e-003 |
| tblVehicleEF | SBUS | 2.06 | 2.53 |
| tblVehicleEF | SBUS | 0.41 | 0.29 |
| tblVehicleEF | SBUS | 0.44 | 0.50 |
| tblVehicleEF | SBUS | 341.28 | 319.50 |
| tblVehicleEF | SBUS | 1,023.90 | 936.85 |
| tblVehicleEF | SBUS | 3.19 | 3.67 |
| tblVehicleEF | SBUS | 0.05 | 0.04 |
| tblVehicleEF | SBUS | 0.13 | 0.12 |
| tblVehicleEF | SBUS | 3.7660e-003 | 4.7200e-003 |
| tblVehicleEF | SBUS | 3.10 | 2.32 |
| tblVehicleEF | SBUS | 3.84 | 2.46 |
| tblVehicleEF | SBUS | 1.06 | 1.40 |
| tblVehicleEF | SBUS | 2.4360e-003 | 1.3190e-003 |
| tblVehicleEF | SBUS | 0.01 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.6000e-005 | 5.9000e-005 |
| tblVehicleEF | SBUS | 2.3310e-003 | 1.2620e-003 |
| tblVehicleEF | SBUS | 2.7460e-003 | 2.7130e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.2000e-005 | 5.4000e-005 |
| tblVehicleEF | SBUS | 8.5100e-004 | 1.1970e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 3.9770e-003 | 5.6050e-003 |
| tblVehicleEF | SBUS | 0.22 | 0.26 |
| tblVehicleEF | SBUS | 3.6700e-004 | 5.5800e-004 |
| tblVehicleEF | SBUS | 0.07 | 0.05 |
| tblVehicleEF | SBUS | 6.4150e-003 | 8.9170e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 3.2450e-003 | 3.0430e-003 |
| tblVehicleEF | SBUS | 9.7680e-003 | 8.9520e-003 |
| tblVehicleEF | SBUS | 3.2000e-005 | 3.6000e-005 |
| tblVehicleEF | SBUS | 8.5100e-004 | 1.1970e-003 |
| tblVehicleEF | SBUS | 3.9770e-003 | 5.6050e-003 |
| tblVehicleEF | SBUS | 0.31 | 0.38 |
| tblVehicleEF | SBUS | 3.6700e-004 | 5.5800e-004 |
| tblVehicleEF | SBUS | 0.08 | 0.06 |
| tblVehicleEF | SBUS | 6.4150e-003 | 8.9170e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.03 |
| tblVehicleEF | SBUS | 0.05 | 0.06 |
| tblVehicleEF | SBUS | 4.9420e-003 | 3.3690e-003 |
| tblVehicleEF | SBUS | 4.6630e-003 | 5.5230e-003 |
| tblVehicleEF | SBUS | 2.14 | 2.59 |
| tblVehicleEF | SBUS | 0.40 | 0.29 |
| tblVehicleEF | SBUS | 0.75 | 0.84 |
| tblVehicleEF | SBUS | 324.86 | 312.18 |
| tblVehicleEF | SBUS | 1,023.88 | 936.84 |
| tblVehicleEF | SBUS | 3.70 | 4.24 |
| tblVehicleEF | SBUS | 0.05 | 0.04 |
| tblVehicleEF | SBUS | 0.13 | 0.12 |
| tblVehicleEF | SBUS | 4.1250e-003 | 5.1740e-003 |
| tblVehicleEF | SBUS | 2.97 | 2.31 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | SBUS | 4.07 | 2.62 |
| tblVehicleEF | SBUS | 1.06 | 1.41 |
| tblVehicleEF | SBUS | 3.4900e-003 | 1.8720e-003 |
| tblVehicleEF | SBUS | 0.01 | 0.01 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.6000e-005 | 5.9000e-005 |
| tblVehicleEF | SBUS | 3.3390e-003 | 1.7910e-003 |
| tblVehicleEF | SBUS | 2.7460e-003 | 2.7130e-003 |
| tblVehicleEF | SBUS | 0.02 | 0.02 |
| tblVehicleEF | SBUS | 4.2000e-005 | 5.4000e-005 |
| tblVehicleEF | SBUS | 1.9800e-004 | 3.1300e-004 |
| tblVehicleEF | SBUS | 3.8980e-003 | 5.5430e-003 |
| tblVehicleEF | SBUS | 0.22 | 0.26 |
| tblVehicleEF | SBUS | 8.5000e-005 | 1.4300e-004 |
| tblVehicleEF | SBUS | 0.07 | 0.05 |
| tblVehicleEF | SBUS | 9.8980e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.03 | 0.03 |
| tblVehicleEF | SBUS | 3.0900e-003 | 2.9730e-003 |
| tblVehicleEF | SBUS | 9.7680e-003 | 8.9510e-003 |
| tblVehicleEF | SBUS | 3.7000e-005 | 4.2000e-005 |
| tblVehicleEF | SBUS | 1.9800e-004 | 3.1300e-004 |
| tblVehicleEF | SBUS | 3.8980e-003 | 5.5430e-003 |
| tblVehicleEF | SBUS | 0.31 | 0.38 |
| tblVehicleEF | SBUS | 8.5000e-005 | 1.4300e-004 |
| tblVehicleEF | SBUS | 0.08 | 0.06 |
| tblVehicleEF | SBUS | 9.8980e-003 | 0.01 |
| tblVehicleEF | SBUS | 0.03 | 0.03 |
| tblVehicleEF | UBUS | 1.31 | 1.76 |
| tblVehicleEF | UBUS | 5.6580e-003 | 4.9700e-003 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | UBUS | 9.77 | 13.30 |
| tblVehicleEF | UBUS | 0.42 | 0.42 |
| tblVehicleEF | UBUS | 1,631.11 | 1,631.09 |
| tblVehicleEF | UBUS | 4.56 | 4.00 |
| tblVehicleEF | UBUS | 0.26 | 0.27 |
| tblVehicleEF | UBUS | 4.0700e-003 | 3.6960e-003 |
| tblVehicleEF | UBUS | 0.70 | 0.68 |
| tblVehicleEF | UBUS | 0.05 | 0.04 |
| tblVehicleEF | UBUS | 5.0900e-003 | 4.9500e-003 |
| tblVehicleEF | UBUS | 3.6000e-005 | 5.0000e-005 |
| tblVehicleEF | UBUS | 4.8670e-003 | 4.7320e-003 |
| tblVehicleEF | UBUS | 3.3000e-005 | 4.6000e-005 |
| tblVehicleEF | UBUS | 2.5000e-004 | 1.4800e-004 |
| tblVehicleEF | UBUS | 3.7780e-003 | 1.8210e-003 |
| tblVehicleEF | UBUS | 1.6000e-004 | 8.8000e-005 |
| tblVehicleEF | UBUS | 0.02 | 0.03 |
| tblVehicleEF | UBUS | 9.7800e-004 | 3.8300e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.02 |
| tblVehicleEF | UBUS | 0.01 | 0.01 |
| tblVehicleEF | UBUS | 4.5000e-005 | 4.0000e-005 |
| tblVehicleEF | UBUS | 2.5000e-004 | 1.4800e-004 |
| tblVehicleEF | UBUS | 3.7780e-003 | 1.8210e-003 |
| tblVehicleEF | UBUS | 1.6000e-004 | 8.8000e-005 |
| tblVehicleEF | UBUS | 1.34 | 1.79 |
| tblVehicleEF | UBUS | 9.7800e-004 | 3.8300e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.02 |
| tblVehicleEF | UBUS | 1.31 | 1.76 |
| tblVehicleEF | UBUS | 5.0110e-003 | 4.3930e-003 |
| tblVehicleEF | UBUS | 9.77 | 13.30 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | UBUS | 0.34 | 0.34 |
| tblVehicleEF | UBUS | 1,631.11 | 1,631.09 |
| tblVehicleEF | UBUS | 4.42 | 3.86 |
| tblVehicleEF | UBUS | 0.26 | 0.27 |
| tblVehicleEF | UBUS | 3.8980e-003 | 3.5400e-003 |
| tblVehicleEF | UBUS | 0.69 | 0.67 |
| tblVehicleEF | UBUS | 0.04 | 0.04 |
| tblVehicleEF | UBUS | 5.0900e-003 | 4.9500e-003 |
| tblVehicleEF | UBUS | 3.6000e-005 | 5.0000e-005 |
| tblVehicleEF | UBUS | 4.8670e-003 | 4.7320e-003 |
| tblVehicleEF | UBUS | 3.3000e-005 | 4.6000e-005 |
| tblVehicleEF | UBUS | 5.8100e-004 | 3.6400e-004 |
| tblVehicleEF | UBUS | 4.1810e-003 | 2.1220e-003 |
| tblVehicleEF | UBUS | 3.3500e-004 | 2.1200e-004 |
| tblVehicleEF | UBUS | 0.02 | 0.03 |
| tblVehicleEF | UBUS | 8.7200e-004 | 3.4800e-004 |
| tblVehicleEF | UBUS | 0.02 | 0.02 |
| tblVehicleEF | UBUS | 0.01 | 0.01 |
| tblVehicleEF | UBUS | 4.4000e-005 | 3.8000e-005 |
| tblVehicleEF | UBUS | 5.8100e-004 | 3.6400e-004 |
| tblVehicleEF | UBUS | 4.1810e-003 | 2.1220e-003 |
| tblVehicleEF | UBUS | 3.3500e-004 | 2.1200e-004 |
| tblVehicleEF | UBUS | 1.34 | 1.79 |
| tblVehicleEF | UBUS | 8.7200e-004 | 3.4800e-004 |
| tblVehicleEF | UBUS | 0.02 | 0.02 |
| tblVehicleEF | UBUS | 1.31 | 1.76 |
| tblVehicleEF | UBUS | 6.1970e-003 | 5.4470e-003 |
| tblVehicleEF | UBUS | 9.77 | 13.30 |
| tblVehicleEF | UBUS | 0.50 | 0.49 |

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

| | | | |
|---|---|---|---|
| tblVehicleEF | UBUS | 1,631.11 | 1,631.09 |
| tblVehicleEF | UBUS | 4.69 | 4.12 |
| tblVehicleEF | UBUS | 0.26 | 0.27 |
| tblVehicleEF | UBUS | 4.2340e-003 | 3.8450e-003 |
| tblVehicleEF | UBUS | 0.70 | 0.68 |
| tblVehicleEF | UBUS | 0.05 | 0.04 |
| tblVehicleEF | UBUS | 5.0900e-003 | 4.9500e-003 |
| tblVehicleEF | UBUS | 3.6000e-005 | 5.0000e-005 |
| tblVehicleEF | UBUS | 4.8670e-003 | 4.7320e-003 |
| tblVehicleEF | UBUS | 3.3000e-005 | 4.6000e-005 |
| tblVehicleEF | UBUS | 1.2500e-004 | 6.3000e-005 |
| tblVehicleEF | UBUS | 3.8940e-003 | 1.9060e-003 |
| tblVehicleEF | UBUS | 7.0000e-005 | 3.8000e-005 |
| tblVehicleEF | UBUS | 0.02 | 0.03 |
| tblVehicleEF | UBUS | 1.2370e-003 | 4.7200e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.02 |
| tblVehicleEF | UBUS | 0.01 | 0.01 |
| tblVehicleEF | UBUS | 4.6000e-005 | 4.1000e-005 |
| tblVehicleEF | UBUS | 1.2500e-004 | 6.3000e-005 |
| tblVehicleEF | UBUS | 3.8940e-003 | 1.9060e-003 |
| tblVehicleEF | UBUS | 7.0000e-005 | 3.8000e-005 |
| tblVehicleEF | UBUS | 1.34 | 1.79 |
| tblVehicleEF | UBUS | 1.2370e-003 | 4.7200e-004 |
| tblVehicleEF | UBUS | 0.03 | 0.03 |
| tblVehicleTrips | WD_TR | 5.44 | 3.75 |
| tblVehicleTrips | WD_TR | 5.44 | 7.20 |
| tblVehicleTrips | WD_TR | 11.26 | 10.40 |
| tblVehicleTrips | WD_TR | 44.32 | 46.50 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

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

| | | | |
|---|---|---|---|
| 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 | 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 | 1.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 1.48 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.48 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

## 2.0 Emissions Summary

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Annual

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

## 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 | | | | | |
| 2022 | 0.1362 | 1.3457 | 1.5337 | 2.8100e-003 | 0.1519 | 0.0619 | 0.2138 | 0.0505 | 0.0571 | 0.1075 | 0.0000 | 250.0758 | 250.0758 | 0.0656 | 5.0800e-003 | 253.2298 |
| 2023 | 1.1982 | 1.4350 | 2.1139 | 3.8100e-003 | 0.0898 | 0.0711 | 0.1609 | 0.0241 | 0.0681 | 0.0923 | 0.0000 | 335.7145 | 335.7145 | 0.0500 | 5.9000e-003 | 338.7226 |
| **Maximum** | **1.1982** | **1.4350** | **2.1139** | **3.8100e-003** | **0.1519** | **0.0711** | **0.2138** | **0.0505** | **0.0681** | **0.1075** | **0.0000** | **335.7145** | **335.7145** | **0.0656** | **5.9000e-003** | **338.7226** |

### 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 | | | | | |
| 2022 | 0.1362 | 1.3457 | 1.5337 | 2.8100e-003 | 0.0873 | 0.0100 | 0.0973 | 0.0278 | 9.2600e-003 | 0.0371 | 0.0000 | 250.0755 | 250.0755 | 0.0656 | 5.0800e-003 | 253.2296 |
| 2023 | 1.1982 | 1.4350 | 2.1139 | 3.8100e-003 | 0.0898 | 0.0113 | 0.1012 | 0.0241 | 0.0109 | 0.0350 | 0.0000 | 335.7142 | 335.7142 | 0.0500 | 5.9000e-003 | 338.7223 |
| **Maximum** | **1.1982** | **1.4350** | **2.1139** | **3.8100e-003** | **0.0898** | **0.0113** | **0.1012** | **0.0278** | **0.0109** | **0.0371** | **0.0000** | **335.7142** | **335.7142** | **0.0656** | **5.9000e-003** | **338.7223** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **26.71** | **83.94** | **47.02** | **30.37** | **83.94** | **63.94** | **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) |
|---|---|---|---|---|
| **1** | **6-1-2022** | **8-31-2022** | 0.8399 | 0.8399 |
| **2** | **9-1-2022** | **11-30-2022** | 0.4509 | 0.4509 |
| **3** | **12-1-2022** | **2-28-2023** | 0.4818 | 0.4818 |
| **4** | **3-1-2023** | **5-31-2023** | 0.8616 | 0.8616 |
| **5** | **6-1-2023** | **8-31-2023** | 0.8527 | 0.8527 |
| **6** | **9-1-2023** | **9-30-2023** | 0.2647 | 0.2647 |
| | | **Highest** | 0.8616 | 0.8616 |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Annual

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

## 2.2 Overall Operational

**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7849 | 0.0128 | 1.1063 | 6.0000e-005 | | 6.1300e-003 | 6.1300e-003 | | 6.1300e-003 | 6.1300e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7400e-003 | 0.0000 | 1.8515 |
| Energy | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | | 1.1700e-003 | 1.1700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7569 | 16.7569 | 3.2000e-004 | 3.1000e-004 | 16.8565 |
| Mobile | 0.3225 | 0.3449 | 3.0627 | 6.4000e-003 | 0.8058 | 4.2800e-003 | 0.8101 | 0.2153 | 3.9900e-003 | 0.2193 | 0.0000 | 624.4587 | 624.4587 | 0.0382 | 0.0289 | 634.0163 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 14.6478 | 0.0000 | 14.6478 | 0.8657 | 0.0000 | 36.2894 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.5486 | 0.0000 | 5.5486 | 0.0191 | 0.0121 | 9.6219 |
| **Total** | **1.1091** | **0.3730** | **4.1820** | **6.5500e-003** | **0.8058** | **0.0116** | **0.8174** | **0.2153** | **0.0113** | **0.2266** | **20.1965** | **643.0237** | **663.2201** | **0.9251** | **0.0412** | **698.6355** |

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

## 2.2 Overall Operational

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7849 | 0.0128 | 1.1063 | 6.0000e-005 | | 6.1300e-003 | 6.1300e-003 | | 6.1300e-003 | 6.1300e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7400e-003 | 0.0000 | 1.8515 |
| Energy | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | | 1.1700e-003 | 1.1700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7569 | 16.7569 | 3.2000e-004 | 3.1000e-004 | 16.8565 |
| Mobile | 0.3225 | 0.3449 | 3.0627 | 6.4000e-003 | 0.8058 | 4.2800e-003 | 0.8101 | 0.2153 | 3.9900e-003 | 0.2193 | 0.0000 | 624.4587 | 624.4587 | 0.0382 | 0.0289 | 634.0163 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 14.6478 | 0.0000 | 14.6478 | 0.8657 | 0.0000 | 36.2894 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 4.4389 | 0.0000 | 4.4389 | 0.0153 | 9.6500e-003 | 7.6975 |
| **Total** | **1.1091** | **0.3730** | **4.1820** | **6.5500e-003** | **0.8058** | **0.0116** | **0.8174** | **0.2153** | **0.0113** | **0.2266** | **19.0867** | **643.0237** | **662.1104** | **0.9212** | **0.0388** | **696.7111** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **5.49** | **0.00** | **0.17** | **0.41** | **5.87** | **0.28** |

## 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 | 6/1/2022 | 7/28/2022 | 6 | 50 | |
| 2 | Site Preparation | Site Preparation | 7/29/2022 | 8/3/2022 | 6 | 5 | |
| 3 | Grading | Grading | 8/4/2022 | 8/20/2022 | 6 | 15 | |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | Trenching | Trenching | 8/22/2022 | 11/22/2022 | 6 | 80 | |
| 5 | Building Construction | Building Construction | 11/23/2022 | 6/8/2023 | 6 | 170 | |
| 6 | Architectural Coating | Architectural Coating | 4/18/2023 | 10/20/2023 | 6 | 160 | |
| 7 | Paving | Paving | 10/21/2023 | 12/29/2023 | 6 | 60 | |

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 22.5**

**Acres of Paving: 0**

**Residential Indoor: 301,725; Residential Outdoor: 100,575; Non-Residential Indoor: 21,543; Non-Residential Outdoor: 7,181; Striped Parking Area: 864 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 0 | 0.00 | 81 | 0.73 |
| Demolition | Excavators | 2 | 8.00 | 158 | 0.38 |
| Demolition | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Skid Steer Loaders | 6 | 8.00 | 65 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 0 | 8.00 | 158 | 0.38 |
| Grading | Graders | 2 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Trenching | Excavators | 2 | 8.00 | 158 | 0.38 |
| Trenching | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 0 | 0.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 0 | 0.00 | 84 | 0.74 |

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

| | | | | | |
|---|---|---|---|---|---|
| Building Construction | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 4 | 8.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 0 | 0.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 0 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 10 | 25.00 | 0.00 | 404.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 5 | 13.00 | 0.00 | 438.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Trenching | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 118.00 | 21.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 4 | 24.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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

## 3.2 Demolition - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0437 | 0.0000 | 0.0437 | 6.6200e-003 | 0.0000 | 6.6200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0443 | 0.4744 | 0.4892 | 8.2000e-004 | | 0.0217 | 0.0217 | | 0.0199 | 0.0199 | 0.0000 | 72.0632 | 72.0632 | 0.0233 | 0.0000 | 72.6459 |
| **Total** | **0.0443** | **0.4744** | **0.4892** | **8.2000e-004** | **0.0437** | **0.0217** | **0.0654** | **6.6200e-003** | **0.0199** | **0.0265** | **0.0000** | **72.0632** | **72.0632** | **0.0233** | **0.0000** | **72.6459** |

### 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 | 7.9000e-004 | 0.0286 | 6.4500e-003 | 1.0000e-004 | 2.7300e-003 | 2.5000e-004 | 2.9800e-003 | 7.5000e-004 | 2.4000e-004 | 9.9000e-004 | 0.0000 | 10.2311 | 10.2311 | 3.4000e-004 | 1.6200e-003 | 10.7224 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.7200e-003 | 1.2400e-003 | 0.0150 | 4.0000e-005 | 4.9400e-003 | 3.0000e-005 | 4.9700e-003 | 1.3100e-003 | 2.0000e-005 | 1.3400e-003 | 0.0000 | 3.9720 | 3.9720 | 1.2000e-004 | 1.1000e-004 | 4.0092 |
| **Total** | **2.5100e-003** | **0.0298** | **0.0214** | **1.4000e-004** | **7.6700e-003** | **2.8000e-004** | **7.9500e-003** | **2.0600e-003** | **2.6000e-004** | **2.3300e-003** | **0.0000** | **14.2031** | **14.2031** | **4.6000e-004** | **1.7300e-003** | **14.7316** |

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

## 3.2 Demolition - 2022

### 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 | | | | | 0.0197 | 0.0000 | 0.0197 | 2.9800e-003 | 0.0000 | 2.9800e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0443 | 0.4744 | 0.4892 | 8.2000e-004 | | 3.2500e-003 | 3.2500e-003 | | 2.9900e-003 | 2.9900e-003 | 0.0000 | 72.0631 | 72.0631 | 0.0233 | 0.0000 | 72.6458 |
| **Total** | **0.0443** | **0.4744** | **0.4892** | **8.2000e-004** | **0.0197** | **3.2500e-003** | **0.0229** | **2.9800e-003** | **2.9900e-003** | **5.9700e-003** | **0.0000** | **72.0631** | **72.0631** | **0.0233** | **0.0000** | **72.6458** |

### 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 | 7.9000e-004 | 0.0286 | 6.4500e-003 | 1.0000e-004 | 2.7300e-003 | 2.5000e-004 | 2.9800e-003 | 7.5000e-004 | 2.4000e-004 | 9.9000e-004 | 0.0000 | 10.2311 | 10.2311 | 3.4000e-004 | 1.6200e-003 | 10.7224 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.7200e-003 | 1.2400e-003 | 0.0150 | 4.0000e-005 | 4.9400e-003 | 3.0000e-005 | 4.9700e-003 | 1.3100e-003 | 2.0000e-005 | 1.3400e-003 | 0.0000 | 3.9720 | 3.9720 | 1.2000e-004 | 1.1000e-004 | 4.0092 |
| **Total** | **2.5100e-003** | **0.0298** | **0.0214** | **1.4000e-004** | **7.6700e-003** | **2.8000e-004** | **7.9500e-003** | **2.0600e-003** | **2.6000e-004** | **2.3300e-003** | **0.0000** | **14.2031** | **14.2031** | **4.6000e-004** | **1.7300e-003** | **14.7316** |

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

## 3.3 Site Preparation - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0164 | 0.0000 | 0.0164 | 8.4200e-003 | 0.0000 | 8.4200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.9200e-003 | 0.0304 | 0.0201 | 4.0000e-005 | | 1.4900e-003 | 1.4900e-003 | | 1.3700e-003 | 1.3700e-003 | 0.0000 | 3.2421 | 3.2421 | 1.0500e-003 | 0.0000 | 3.2683 |
| **Total** | **2.9200e-003** | **0.0304** | **0.0201** | **4.0000e-005** | **0.0164** | **1.4900e-003** | **0.0179** | **8.4200e-003** | **1.3700e-003** | **9.7900e-003** | **0.0000** | **3.2421** | **3.2421** | **1.0500e-003** | **0.0000** | **3.2683** |

### 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 | 5.0000e-005 | 4.0000e-005 | 4.8000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 4.0000e-005 | 0.0000 | 4.0000e-005 | 0.0000 | 0.1271 | 0.1271 | 0.0000 | 0.0000 | 0.1283 |
| **Total** | **5.0000e-005** | **4.0000e-005** | **4.8000e-004** | **0.0000** | **1.6000e-004** | **0.0000** | **1.6000e-004** | **4.0000e-005** | **0.0000** | **4.0000e-005** | **0.0000** | **0.1271** | **0.1271** | **0.0000** | **0.0000** | **0.1283** |

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

## 3.3 Site Preparation - 2022

### 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 | | | | | 7.3700e-003 | 0.0000 | 7.3700e-003 | 3.7900e-003 | 0.0000 | 3.7900e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.9200e-003 | 0.0304 | 0.0201 | 4.0000e-005 | | 2.2000e-004 | 2.2000e-004 | | 2.1000e-004 | 2.1000e-004 | 0.0000 | 3.2421 | 3.2421 | 1.0500e-003 | 0.0000 | 3.2683 |
| **Total** | **2.9200e-003** | **0.0304** | **0.0201** | **4.0000e-005** | **7.3700e-003** | **2.2000e-004** | **7.5900e-003** | **3.7900e-003** | **2.1000e-004** | **4.0000e-003** | **0.0000** | **3.2421** | **3.2421** | **1.0500e-003** | **0.0000** | **3.2683** |

### 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 | 5.0000e-005 | 4.0000e-005 | 4.8000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 4.0000e-005 | 0.0000 | 4.0000e-005 | 0.0000 | 0.1271 | 0.1271 | 0.0000 | 0.0000 | 0.1283 |
| **Total** | **5.0000e-005** | **4.0000e-005** | **4.8000e-004** | **0.0000** | **1.6000e-004** | **0.0000** | **1.6000e-004** | **4.0000e-005** | **0.0000** | **4.0000e-005** | **0.0000** | **0.1271** | **0.1271** | **0.0000** | **0.0000** | **0.1283** |

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

## 3.4 Grading - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0573 | 0.0000 | 0.0573 | 0.0261 | 0.0000 | 0.0261 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0150 | 0.1700 | 0.0863 | 2.1000e-004 | | 6.9900e-003 | 6.9900e-003 | | 6.4300e-003 | 6.4300e-003 | 0.0000 | 18.4526 | 18.4526 | 5.9700e-003 | 0.0000 | 18.6018 |
| **Total** | **0.0150** | **0.1700** | **0.0863** | **2.1000e-004** | **0.0573** | **6.9900e-003** | **0.0643** | **0.0261** | **6.4300e-003** | **0.0326** | **0.0000** | **18.4526** | **18.4526** | **5.9700e-003** | **0.0000** | **18.6018** |

### 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 | 8.6000e-004 | 0.0310 | 6.9900e-003 | 1.1000e-004 | 2.9600e-003 | 2.7000e-004 | 3.2300e-003 | 8.2000e-004 | 2.6000e-004 | 1.0700e-003 | 0.0000 | 11.0922 | 11.0922 | 3.6000e-004 | 1.7600e-003 | 11.6248 |
| 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 | 2.7000e-004 | 1.9000e-004 | 2.3300e-003 | 1.0000e-005 | 7.7000e-004 | 0.0000 | 7.7000e-004 | 2.0000e-004 | 0.0000 | 2.1000e-004 | 0.0000 | 0.6196 | 0.6196 | 2.0000e-005 | 2.0000e-005 | 0.6254 |
| **Total** | **1.1300e-003** | **0.0312** | **9.3200e-003** | **1.2000e-004** | **3.7300e-003** | **2.7000e-004** | **4.0000e-003** | **1.0200e-003** | **2.6000e-004** | **1.2800e-003** | **0.0000** | **11.7118** | **11.7118** | **3.8000e-004** | **1.7800e-003** | **12.2502** |

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

## 3.4 Grading - 2022

### 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 | | | | | 0.0258 | 0.0000 | 0.0258 | 0.0118 | 0.0000 | 0.0118 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0150 | 0.1700 | 0.0863 | 2.1000e-004 | | 1.0500e-003 | 1.0500e-003 | | 9.6000e-004 | 9.6000e-004 | 0.0000 | 18.4526 | 18.4526 | 5.9700e-003 | 0.0000 | 18.6018 |
| **Total** | **0.0150** | **0.1700** | **0.0863** | **2.1000e-004** | **0.0258** | **1.0500e-003** | **0.0268** | **0.0118** | **9.6000e-004** | **0.0127** | **0.0000** | **18.4526** | **18.4526** | **5.9700e-003** | **0.0000** | **18.6018** |

### 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 | 8.6000e-004 | 0.0310 | 6.9900e-003 | 1.1000e-004 | 2.9600e-003 | 2.7000e-004 | 3.2300e-003 | 8.2000e-004 | 2.6000e-004 | 1.0700e-003 | 0.0000 | 11.0922 | 11.0922 | 3.6000e-004 | 1.7600e-003 | 11.6248 |
| 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 | 2.7000e-004 | 1.9000e-004 | 2.3300e-003 | 1.0000e-005 | 7.7000e-004 | 0.0000 | 7.7000e-004 | 2.0000e-004 | 0.0000 | 2.1000e-004 | 0.0000 | 0.6196 | 0.6196 | 2.0000e-005 | 2.0000e-005 | 0.6254 |
| **Total** | **1.1300e-003** | **0.0312** | **9.3200e-003** | **1.2000e-004** | **3.7300e-003** | **2.7000e-004** | **4.0000e-003** | **1.0200e-003** | **2.6000e-004** | **1.2800e-003** | **0.0000** | **11.7118** | **11.7118** | **3.8000e-004** | **1.7800e-003** | **12.2502** |

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

## 3.5 Trenching - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0426 | 0.4103 | 0.6185 | 9.1000e-004 | | 0.0213 | 0.0213 | | 0.0196 | 0.0196 | 0.0000 | 80.0132 | 80.0132 | 0.0259 | 0.0000 | 80.6602 |
| **Total** | **0.0426** | **0.4103** | **0.6185** | **9.1000e-004** | | **0.0213** | **0.0213** | | **0.0196** | **0.0196** | **0.0000** | **80.0132** | **80.0132** | **0.0259** | **0.0000** | **80.6602** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6500e-003 | 1.1900e-003 | 0.0144 | 4.0000e-005 | 4.7400e-003 | 3.0000e-005 | 4.7700e-003 | 1.2600e-003 | 2.0000e-005 | 1.2800e-003 | 0.0000 | 3.8131 | 3.8131 | 1.2000e-004 | 1.1000e-004 | 3.8488 |
| **Total** | **1.6500e-003** | **1.1900e-003** | **0.0144** | **4.0000e-005** | **4.7400e-003** | **3.0000e-005** | **4.7700e-003** | **1.2600e-003** | **2.0000e-005** | **1.2800e-003** | **0.0000** | **3.8131** | **3.8131** | **1.2000e-004** | **1.1000e-004** | **3.8488** |

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

## 3.5 Trenching - 2022

### 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 | 0.0426 | 0.4103 | 0.6185 | 9.1000e-004 | | 3.1900e-003 | 3.1900e-003 | | 2.9400e-003 | 2.9400e-003 | 0.0000 | 80.0131 | 80.0131 | 0.0259 | 0.0000 | 80.6601 |
| **Total** | **0.0426** | **0.4103** | **0.6185** | **9.1000e-004** | | **3.1900e-003** | **3.1900e-003** | | **2.9400e-003** | **2.9400e-003** | **0.0000** | **80.0131** | **80.0131** | **0.0259** | **0.0000** | **80.6601** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6500e-003 | 1.1900e-003 | 0.0144 | 4.0000e-005 | 4.7400e-003 | 3.0000e-005 | 4.7700e-003 | 1.2600e-003 | 2.0000e-005 | 1.2800e-003 | 0.0000 | 3.8131 | 3.8131 | 1.2000e-004 | 1.1000e-004 | 3.8488 |
| **Total** | **1.6500e-003** | **1.1900e-003** | **0.0144** | **4.0000e-005** | **4.7400e-003** | **3.0000e-005** | **4.7700e-003** | **1.2600e-003** | **2.0000e-005** | **1.2800e-003** | **0.0000** | **3.8131** | **3.8131** | **1.2000e-004** | **1.1000e-004** | **3.8488** |

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

## 3.6 Building Construction - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1747 | 0.2202 | 3.1000e-004 | | 9.5900e-003 | 9.5900e-003 | | 8.9100e-003 | 8.9100e-003 | 0.0000 | 26.3487 | 26.3487 | 7.8700e-003 | 0.0000 | 26.5454 |
| **Total** | **0.0198** | **0.1747** | **0.2202** | **3.1000e-004** | | **9.5900e-003** | **9.5900e-003** | | **8.9100e-003** | **8.9100e-003** | **0.0000** | **26.3487** | **26.3487** | **7.8700e-003** | **0.0000** | **26.5454** |

### 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 | 7.6000e-004 | 0.0200 | 5.8100e-003 | 8.0000e-005 | 2.3400e-003 | 2.1000e-004 | 2.5500e-003 | 6.8000e-004 | 2.0000e-004 | 8.7000e-004 | 0.0000 | 7.3525 | 7.3525 | 1.6000e-004 | 1.0900e-003 | 7.6814 |
| Worker | 5.5100e-003 | 3.9700e-003 | 0.0480 | 1.4000e-004 | 0.0159 | 9.0000e-005 | 0.0159 | 4.2200e-003 | 8.0000e-005 | 4.3000e-003 | 0.0000 | 12.7484 | 12.7484 | 4.0000e-004 | 3.7000e-004 | 12.8679 |
| **Total** | **6.2700e-003** | **0.0239** | **0.0538** | **2.2000e-004** | **0.0182** | **3.0000e-004** | **0.0185** | **4.9000e-003** | **2.8000e-004** | **5.1700e-003** | **0.0000** | **20.1009** | **20.1009** | **5.6000e-004** | **1.4600e-003** | **20.5493** |

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

## 3.6 Building Construction - 2022

### 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 | 0.0198 | 0.1747 | 0.2202 | 3.1000e-004 | | 1.4400e-003 | 1.4400e-003 | | 1.3400e-003 | 1.3400e-003 | 0.0000 | 26.3486 | 26.3486 | 7.8700e-003 | 0.0000 | 26.5454 |
| **Total** | **0.0198** | **0.1747** | **0.2202** | **3.1000e-004** | | **1.4400e-003** | **1.4400e-003** | | **1.3400e-003** | **1.3400e-003** | **0.0000** | **26.3486** | **26.3486** | **7.8700e-003** | **0.0000** | **26.5454** |

### 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 | 7.6000e-004 | 0.0200 | 5.8100e-003 | 8.0000e-005 | 2.3400e-003 | 2.1000e-004 | 2.5500e-003 | 6.8000e-004 | 2.0000e-004 | 8.7000e-004 | 0.0000 | 7.3525 | 7.3525 | 1.6000e-004 | 1.0900e-003 | 7.6814 |
| Worker | 5.5100e-003 | 3.9700e-003 | 0.0480 | 1.4000e-004 | 0.0159 | 9.0000e-005 | 0.0159 | 4.2200e-003 | 8.0000e-005 | 4.3000e-003 | 0.0000 | 12.7484 | 12.7484 | 4.0000e-004 | 3.7000e-004 | 12.8679 |
| **Total** | **6.2700e-003** | **0.0239** | **0.0538** | **2.2000e-004** | **0.0182** | **3.0000e-004** | **0.0185** | **4.9000e-003** | **2.8000e-004** | **5.1700e-003** | **0.0000** | **20.1009** | **20.1009** | **5.6000e-004** | **1.4600e-003** | **20.5493** |

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

## 3.6 Building Construction - 2023

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0724 | 0.6448 | 0.8767 | 1.2300e-003 | | 0.0324 | 0.0324 | | 0.0301 | 0.0301 | 0.0000 | 105.4779 | 105.4779 | 0.0314 | 0.0000 | 106.2622 |
| **Total** | **0.0724** | **0.6448** | **0.8767** | **1.2300e-003** | | **0.0324** | **0.0324** | | **0.0301** | **0.0301** | **0.0000** | **105.4779** | **105.4779** | **0.0314** | **0.0000** | **106.2622** |

### 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 | 1.5200e-003 | 0.0635 | 0.0199 | 2.9000e-004 | 9.3700e-003 | 3.7000e-004 | 9.7400e-003 | 2.7100e-003 | 3.6000e-004 | 3.0700e-003 | 0.0000 | 28.1881 | 28.1881 | 5.8000e-004 | 4.1700e-003 | 29.4451 |
| Worker | 0.0205 | 0.0141 | 0.1780 | 5.4000e-004 | 0.0634 | 3.3000e-004 | 0.0637 | 0.0169 | 3.0000e-004 | 0.0172 | 0.0000 | 49.6926 | 49.6926 | 1.4300e-003 | 1.3600e-003 | 50.1346 |
| **Total** | **0.0221** | **0.0776** | **0.1978** | **8.3000e-004** | **0.0728** | **7.0000e-004** | **0.0735** | **0.0196** | **6.6000e-004** | **0.0202** | **0.0000** | **77.8806** | **77.8806** | **2.0100e-003** | **5.5300e-003** | **79.5797** |

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

## 3.6 Building Construction - 2023

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0724 | 0.6448 | 0.8767 | 1.2300e-003 | | 4.8700e-003 | 4.8700e-003 | | 4.5200e-003 | 4.5200e-003 | 0.0000 | 105.4778 | 105.4778 | 0.0314 | 0.0000 | 106.2620 |
| **Total** | **0.0724** | **0.6448** | **0.8767** | **1.2300e-003** | | **4.8700e-003** | **4.8700e-003** | | **4.5200e-003** | **4.5200e-003** | **0.0000** | **105.4778** | **105.4778** | **0.0314** | **0.0000** | **106.2620** |

### 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 | 1.5200e-003 | 0.0635 | 0.0199 | 2.9000e-004 | 9.3700e-003 | 3.7000e-004 | 9.7400e-003 | 2.7100e-003 | 3.6000e-004 | 3.0700e-003 | 0.0000 | 28.1881 | 28.1881 | 5.8000e-004 | 4.1700e-003 | 29.4451 |
| Worker | 0.0205 | 0.0141 | 0.1780 | 5.4000e-004 | 0.0634 | 3.3000e-004 | 0.0637 | 0.0169 | 3.0000e-004 | 0.0172 | 0.0000 | 49.6926 | 49.6926 | 1.4300e-003 | 1.3600e-003 | 50.1346 |
| **Total** | **0.0221** | **0.0776** | **0.1978** | **8.3000e-004** | **0.0728** | **7.0000e-004** | **0.0735** | **0.0196** | **6.6000e-004** | **0.0202** | **0.0000** | **77.8806** | **77.8806** | **2.0100e-003** | **5.5300e-003** | **79.5797** |

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

## 3.7 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.0009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0818 | 0.5559 | 0.7727 | 1.2700e-003 | | 0.0302 | 0.0302 | | 0.0302 | 0.0302 | 0.0000 | 108.9388 | 108.9388 | 6.5200e-003 | 0.0000 | 109.1018 |
| **Total** | **1.0827** | **0.5559** | **0.7727** | **1.2700e-003** | | **0.0302** | **0.0302** | | **0.0302** | **0.0302** | **0.0000** | **108.9388** | **108.9388** | **6.5200e-003** | **0.0000** | **109.1018** |

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.9100e-003 | 3.3600e-003 | 0.0426 | 1.3000e-004 | 0.0152 | 8.0000e-005 | 0.0153 | 4.0400e-003 | 7.0000e-005 | 4.1100e-003 | 0.0000 | 11.8905 | 11.8905 | 3.4000e-004 | 3.3000e-004 | 11.9963 |
| **Total** | **4.9100e-003** | **3.3600e-003** | **0.0426** | **1.3000e-004** | **0.0152** | **8.0000e-005** | **0.0153** | **4.0400e-003** | **7.0000e-005** | **4.1100e-003** | **0.0000** | **11.8905** | **11.8905** | **3.4000e-004** | **3.3000e-004** | **11.9963** |

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

## 3.7 Architectural Coating - 2023

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.0009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0818 | 0.5559 | 0.7727 | 1.2700e-003 | | 4.5300e-003 | 4.5300e-003 | | 4.5300e-003 | 4.5300e-003 | 0.0000 | 108.9387 | 108.9387 | 6.5200e-003 | 0.0000 | 109.1016 |
| **Total** | **1.0827** | **0.5559** | **0.7727** | **1.2700e-003** | | **4.5300e-003** | **4.5300e-003** | | **4.5300e-003** | **4.5300e-003** | **0.0000** | **108.9387** | **108.9387** | **6.5200e-003** | **0.0000** | **109.1016** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.9100e-003 | 3.3600e-003 | 0.0426 | 1.3000e-004 | 0.0152 | 8.0000e-005 | 0.0153 | 4.0400e-003 | 7.0000e-005 | 4.1100e-003 | 0.0000 | 11.8905 | 11.8905 | 3.4000e-004 | 3.3000e-004 | 11.9963 |
| **Total** | **4.9100e-003** | **3.3600e-003** | **0.0426** | **1.3000e-004** | **0.0152** | **8.0000e-005** | **0.0153** | **4.0400e-003** | **7.0000e-005** | **4.1100e-003** | **0.0000** | **11.8905** | **11.8905** | **3.4000e-004** | **3.3000e-004** | **11.9963** |

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

## 3.8 Paving - 2023

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0155 | 0.1529 | 0.2188 | 3.4000e-004 | | 7.6500e-003 | 7.6500e-003 | | 7.0400e-003 | 7.0400e-003 | 0.0000 | 30.0403 | 30.0403 | 9.7200e-003 | 0.0000 | 30.2832 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0155** | **0.1529** | **0.2188** | **3.4000e-004** | | **7.6500e-003** | **7.6500e-003** | | **7.0400e-003** | **7.0400e-003** | **0.0000** | **30.0403** | **30.0403** | **9.7200e-003** | **0.0000** | **30.2832** |

### 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 | 6.1000e-004 | 4.2000e-004 | 5.3200e-003 | 2.0000e-005 | 1.9000e-003 | 1.0000e-005 | 1.9100e-003 | 5.0000e-004 | 1.0000e-005 | 5.1000e-004 | 0.0000 | 1.4863 | 1.4863 | 4.0000e-005 | 4.0000e-005 | 1.4995 |
| **Total** | **6.1000e-004** | **4.2000e-004** | **5.3200e-003** | **2.0000e-005** | **1.9000e-003** | **1.0000e-005** | **1.9100e-003** | **5.0000e-004** | **1.0000e-005** | **5.1000e-004** | **0.0000** | **1.4863** | **1.4863** | **4.0000e-005** | **4.0000e-005** | **1.4995** |

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

## 3.8 Paving - 2023

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0155 | 0.1529 | 0.2188 | 3.4000e-004 | | 1.1500e-003 | 1.1500e-003 | | 1.0600e-003 | 1.0600e-003 | 0.0000 | 30.0403 | 30.0403 | 9.7200e-003 | 0.0000 | 30.2832 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0155** | **0.1529** | **0.2188** | **3.4000e-004** | | **1.1500e-003** | **1.1500e-003** | | **1.0600e-003** | **1.0600e-003** | **0.0000** | **30.0403** | **30.0403** | **9.7200e-003** | **0.0000** | **30.2832** |

### 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 | 6.1000e-004 | 4.2000e-004 | 5.3200e-003 | 2.0000e-005 | 1.9000e-003 | 1.0000e-005 | 1.9100e-003 | 5.0000e-004 | 1.0000e-005 | 5.1000e-004 | 0.0000 | 1.4863 | 1.4863 | 4.0000e-005 | 4.0000e-005 | 1.4995 |
| **Total** | **6.1000e-004** | **4.2000e-004** | **5.3200e-003** | **2.0000e-005** | **1.9000e-003** | **1.0000e-005** | **1.9100e-003** | **5.0000e-004** | **1.0000e-005** | **5.1000e-004** | **0.0000** | **1.4863** | **1.4863** | **4.0000e-005** | **4.0000e-005** | **1.4995** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3225 | 0.3449 | 3.0627 | 6.4000e-003 | 0.8058 | 4.2800e-003 | 0.8101 | 0.2153 | 3.9900e-003 | 0.2193 | 0.0000 | 624.4587 | 624.4587 | 0.0382 | 0.0289 | 634.0163 |
| Unmitigated | 0.3225 | 0.3449 | 3.0627 | 6.4000e-003 | 0.8058 | 4.2800e-003 | 0.8101 | 0.2153 | 3.9900e-003 | 0.2193 | 0.0000 | 624.4587 | 624.4587 | 0.0382 | 0.0289 | 634.0163 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 281.25 | 368.25 | 306.75 | 686,696 | 686,696 |
| Condo/Townhouse High Rise | 532.80 | 363.34 | 302.66 | 1,098,713 | 1,098,713 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Research & Development | 122.30 | 22.34 | 13.05 | 231,619 | 231,619 |
| Strip Mall | 120.90 | 109.30 | 53.12 | 168,726 | 168,726 |
| Total | 1,057.25 | 863.24 | 675.58 | 2,185,755 | 2,185,755 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Condo/Townhouse High Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |

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

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Research & Development | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Condo/Townhouse High Rise | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Parking Lot | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Research & Development | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Strip Mall | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 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 | 0.0000 |
| NaturalGas Mitigated | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | | 1.1700e-003 | 1.1700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7569 | 16.7569 | 3.2000e-004 | 3.1000e-004 | 16.8565 |
| NaturalGas Unmitigated | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | | 1.1700e-003 | 1.1700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7569 | 16.7569 | 3.2000e-004 | 3.1000e-004 | 16.8565 |

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

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | 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 |
| 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 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 307929 | 1.6600e-003 | 0.0151 | 0.0127 | 9.0000e-005 | | 1.1500e-003 | 1.1500e-003 | | 1.1500e-003 | 1.1500e-003 | 0.0000 | 16.4323 | 16.4323 | 3.1000e-004 | 3.0000e-004 | 16.5299 |
| Strip Mall | 6084 | 3.0000e-005 | 3.0000e-004 | 2.5000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.3247 | 0.3247 | 1.0000e-005 | 1.0000e-005 | 0.3266 |
| **Total** | | **1.6900e-003** | **0.0154** | **0.0129** | **9.0000e-005** | | **1.1700e-003** | **1.1700e-003** | | **1.1700e-003** | **1.1700e-003** | **0.0000** | **16.7569** | **16.7569** | **3.2000e-004** | **3.1000e-004** | **16.8565** |

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | 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 |
| 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 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 307929 | 1.6600e-003 | 0.0151 | 0.0127 | 9.0000e-005 | | 1.1500e-003 | 1.1500e-003 | | 1.1500e-003 | 1.1500e-003 | 0.0000 | 16.4323 | 16.4323 | 3.1000e-004 | 3.0000e-004 | 16.5299 |
| Strip Mall | 6084 | 3.0000e-005 | 3.0000e-004 | 2.5000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.3247 | 0.3247 | 1.0000e-005 | 1.0000e-005 | 0.3266 |
| **Total** | | **1.6900e-003** | **0.0154** | **0.0129** | **9.0000e-005** | | **1.1700e-003** | **1.1700e-003** | | **1.1700e-003** | **1.1700e-003** | **0.0000** | **16.7569** | **16.7569** | **3.2000e-004** | **3.1000e-004** | **16.8565** |

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

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 641492 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse High Rise | 652153 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 5040 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 95272.2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 27014 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

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

## 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 307916 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse High Rise | 313033 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 2419.2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 45730.7 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 12966.7 | 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

No Hearths Installed

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.7849 | 0.0128 | 1.1063 | 6.0000e-005 | | 6.1300e-003 | 6.1300e-003 | | 6.1300e-003 | 6.1300e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7400e-003 | 0.0000 | 1.8515 |
| Unmitigated | 0.7849 | 0.0128 | 1.1063 | 6.0000e-005 | | 6.1300e-003 | 6.1300e-003 | | 6.1300e-003 | 6.1300e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7400e-003 | 0.0000 | 1.8515 |

## 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 | 0.1127 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6389 | | | | | 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 | 0.0333 | 0.0128 | 1.1063 | 6.0000e-005 | | 6.1300e-003 | 6.1300e-003 | | 6.1300e-003 | 6.1300e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7400e-003 | 0.0000 | 1.8515 |
| **Total** | **0.7849** | **0.0128** | **1.1063** | **6.0000e-005** | | **6.1300e-003** | **6.1300e-003** | | **6.1300e-003** | **6.1300e-003** | **0.0000** | **1.8081** | **1.8081** | **1.7400e-003** | **0.0000** | **1.8515** |

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Annual

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1127 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6389 | | | | | 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 | 0.0333 | 0.0128 | 1.1063 | 6.0000e-005 | | 6.1300e-003 | 6.1300e-003 | | 6.1300e-003 | 6.1300e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7400e-003 | 0.0000 | 1.8515 |
| **Total** | **0.7849** | **0.0128** | **1.1063** | **6.0000e-005** | | **6.1300e-003** | **6.1300e-003** | | **6.1300e-003** | **6.1300e-003** | **0.0000** | **1.8081** | **1.8081** | **1.7400e-003** | **0.0000** | **1.8515** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

**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 | 4.4389 | 0.0153 | 9.6500e-003 | 7.6975 |
| Unmitigated | 5.5486 | 0.0191 | 0.0121 | 9.6219 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 4.88655 / 3.08065 | 1.7289 | 5.9500e-003 | 3.7600e-003 | 2.9980 |
| Condo/Townhouse High Rise | 4.8214 / 3.03958 | 1.7058 | 5.8700e-003 | 3.7100e-003 | 2.9581 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 5.78232 / 0 | 2.0458 | 7.0400e-003 | 4.4500e-003 | 3.5476 |
| Strip Mall | 0.192589 / 0.118038 | 0.0681 | 2.3000e-004 | 1.5000e-004 | 0.1182 |
| **Total** | | **5.5486** | **0.0191** | **0.0121** | **9.6219** |

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

## 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 3.90924 / 3.08065 | 1.3831 | 4.7600e-003 | 3.0100e-003 | 2.3984 |
| Condo/Townhouse High Rise | 3.85712 / 3.03958 | 1.3647 | 4.7000e-003 | 2.9700e-003 | 2.3665 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 4.62586 / 0 | 1.6366 | 5.6300e-003 | 3.5600e-003 | 2.8381 |
| Strip Mall | 0.154071 / 0.118038 | 0.0545 | 1.9000e-004 | 1.2000e-004 | 0.0945 |
| **Total** | | **4.4389** | **0.0153** | **9.6600e-003** | **7.6975** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

200 Portage Avenue AQ Alternative 3 - Bay Area AQMD Air District, Annual

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

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 14.6478 | 0.8657 | 0.0000 | 36.2894 |
| Unmitigated | 14.6478 | 0.8657 | 0.0000 | 36.2894 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 34.5 | 7.0032 | 0.4139 | 0.0000 | 17.3501 |
| Condo/Townhouse High Rise | 34.04 | 6.9098 | 0.4084 | 0.0000 | 17.1188 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 0.89 | 0.1807 | 0.0107 | 0.0000 | 0.4476 |
| Strip Mall | 2.73 | 0.5542 | 0.0328 | 0.0000 | 1.3729 |
| **Total** | | **14.6478** | **0.8657** | **0.0000** | **36.2894** |

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

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 34.5 | 7.0032 | 0.4139 | 0.0000 | 17.3501 |
| Condo/Townhouse High Rise | 34.04 | 6.9098 | 0.4084 | 0.0000 | 17.1188 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 0.89 | 0.1807 | 0.0107 | 0.0000 | 0.4476 |
| Strip Mall | 2.73 | 0.5542 | 0.0328 | 0.0000 | 1.3729 |
| **Total** | | **14.6478** | **0.8657** | **0.0000** | **36.2894** |

## 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 |
|---|---|---|---|---|---|

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

**User Defined Equipment**

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

## 11.0 Vegetation

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

# Existing to be Removed AQ Operational

**Bay Area AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 5.64 | 1000sqft | 0.13 | 5,640.00 | 0 |
| Health Club | 1.75 | 1000sqft | 0.04 | 1,750.00 | 0 |
| Automobile Care Center | 11.76 | 1000sqft | 0.27 | 11,760.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2024 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - Operational model only

Land Use -

Construction Phase - Operational model only

Vehicle Trips - Default trip generation rates

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

| | | | |
|---|---|---|---|
| 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 | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 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 | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | N20 | 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) |
|---|---|---|---|---|

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

| | | | | |
|---|---|---|---|---|
| | | **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 | 0.0848 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| Energy | 2.0100e-003 | 0.0183 | 0.0154 | 1.1000e-004 | | 1.3900e-003 | 1.3900e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 19.9097 | 19.9097 | 3.8000e-004 | 3.7000e-004 | 20.0280 |
| Mobile | 0.1049 | 0.0952 | 0.7943 | 1.3400e-003 | 0.1395 | 1.0800e-003 | 0.1406 | 0.0373 | 1.0000e-003 | 0.0383 | 0.0000 | 125.8405 | 125.8405 | 0.0114 | 7.4600e-003 | 128.3467 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 12.2180 | 0.0000 | 12.2180 | 0.7221 | 0.0000 | 30.2696 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.8895 | 0.0000 | 0.8895 | 3.0600e-003 | 1.9300e-003 | 1.5425 |
| **Total** | **0.1917** | **0.1135** | **0.8098** | **1.4500e-003** | **0.1395** | **2.4700e-003** | **0.1419** | **0.0373** | **2.3900e-003** | **0.0397** | **13.1075** | **145.7505** | **158.8581** | **0.7369** | **9.7600e-003** | **180.1872** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.0848 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| Energy | 2.0100e-003 | 0.0183 | 0.0154 | 1.1000e-004 | | 1.3900e-003 | 1.3900e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 19.9097 | 19.9097 | 3.8000e-004 | 3.7000e-004 | 20.0280 |
| Mobile | 0.1049 | 0.0952 | 0.7943 | 1.3400e-003 | 0.1395 | 1.0800e-003 | 0.1406 | 0.0373 | 1.0000e-003 | 0.0383 | 0.0000 | 125.8405 | 125.8405 | 0.0114 | 7.4600e-003 | 128.3467 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 12.2180 | 0.0000 | 12.2180 | 0.7221 | 0.0000 | 30.2696 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.8895 | 0.0000 | 0.8895 | 3.0600e-003 | 1.9300e-003 | 1.5425 |
| **Total** | **0.1917** | **0.1135** | **0.8098** | **1.4500e-003** | **0.1395** | **2.4700e-003** | **0.1419** | **0.0373** | **2.3900e-003** | **0.0397** | **13.1075** | **145.7505** | **158.8581** | **0.7369** | **9.7600e-003** | **180.1872** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 8/30/2022 | 8/29/2022 | 5 | 10 | |
| 2 | Site Preparation | Site Preparation | 8/30/2022 | 8/29/2022 | 5 | 1 | |
| 3 | Grading | Grading | 8/30/2022 | 8/29/2022 | 5 | 2 | |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | Building Construction | Building Construction | 8/30/2022 | 8/29/2022 | 5 | 100 | |
| 5 | Paving | Paving | 8/30/2022 | 8/29/2022 | 5 | 5 | |
| 6 | Architectural Coating | Architectural Coating | 8/30/2022 | 8/29/2022 | 5 | 5 | |

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 28,725; Non-Residential Outdoor: 9,575; 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 |
| Paving | Cement and Mortar Mixers | 4 | 6.00 | 9 | 0.56 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 6.00 | 89 | 0.20 |
| Grading | Graders | 1 | 6.00 | 187 | 0.41 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

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

**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 | 4 | 10.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 7.00 | 3.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 1.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Demolition - 2022

**Unmitigated Construction On-Site**

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

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.2 Demolition - 2022

### Unmitigated Construction Off-Site

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

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

## 3.2 Demolition - 2022

**Mitigated Construction Off-Site**

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

## 3.3 Site Preparation - 2022

**Unmitigated Construction On-Site**

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

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

## 3.3 Site Preparation - 2022

### Unmitigated Construction Off-Site

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

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.3 Site Preparation - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 - 2022

**Unmitigated Construction On-Site**

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

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## 3.4 Grading - 2022

### Unmitigated Construction Off-Site

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

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## 3.4 Grading - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 - 2022

**Unmitigated Construction On-Site**

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

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.5 Building Construction - 2022

### Unmitigated Construction Off-Site

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

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.5 Building Construction - 2022

**Mitigated Construction Off-Site**

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

## 3.6 Paving - 2022

**Unmitigated Construction On-Site**

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

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

## 3.6 Paving - 2022

### Unmitigated Construction Off-Site

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

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 3.6 Paving - 2022

**Mitigated Construction Off-Site**

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

## 3.7 Architectural Coating - 2022

**Unmitigated Construction On-Site**

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

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

## 3.7 Architectural Coating - 2022

### Unmitigated Construction Off-Site

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

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

### 3.7 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.1049 | 0.0952 | 0.7943 | 1.3400e-003 | 0.1395 | 1.0800e-003 | 0.1406 | 0.0373 | 1.0000e-003 | 0.0383 | 0.0000 | 125.8405 | 125.8405 | 0.0114 | 7.4600e-003 | 128.3467 |
| Unmitigated | 0.1049 | 0.0952 | 0.7943 | 1.3400e-003 | 0.1395 | 1.0800e-003 | 0.1406 | 0.0373 | 1.0000e-003 | 0.0383 | 0.0000 | 125.8405 | 125.8405 | 0.0114 | 7.4600e-003 | 128.3467 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Automobile Care Center | 278.95 | 278.95 | 139.71 | 258,068 | 258,068 |
| Health Club | 57.63 | 36.52 | 46.78 | 91,674 | 91,674 |
| Unrefrigerated Warehouse-No Rail | 9.81 | 9.81 | 9.81 | 28,651 | 28,651 |
| Total | 346.39 | 325.28 | 196.30 | 378,393 | 378,393 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Automobile Care Center | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| Health Club | 9.50 | 7.30 | 7.30 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Unrefrigerated Warehouse-No | 9.50 | 7.30 | 7.30 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Automobile Care Center | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |
| Health Club | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |

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

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 0.553342 | 0.058522 | 0.188738 | 0.121080 | 0.023016 | 0.005623 | 0.010412 | 0.007562 | 0.000987 | 0.000568 | 0.026444 | 0.000834 | 0.002871 |

## 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 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 | 0.0000 |
| NaturalGas Mitigated | 2.0100e-003 | 0.0183 | 0.0154 | 1.1000e-004 | | 1.3900e-003 | 1.3900e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 19.9097 | 19.9097 | 3.8000e-004 | 3.7000e-004 | 20.0280 |
| NaturalGas Unmitigated | 2.0100e-003 | 0.0183 | 0.0154 | 1.1000e-004 | | 1.3900e-003 | 1.3900e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 19.9097 | 19.9097 | 3.8000e-004 | 3.7000e-004 | 20.0280 |

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

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Automobile Care Center | 307877 | 1.6600e-003 | 0.0151 | 0.0127 | 9.0000e-005 | | 1.1500e-003 | 1.1500e-003 | | 1.1500e-003 | 1.1500e-003 | 0.0000 | 16.4295 | 16.4295 | 3.1000e-004 | 3.0000e-004 | 16.5271 |
| Health Club | 45815 | 2.5000e-004 | 2.2500e-003 | 1.8900e-003 | 1.0000e-005 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 2.4449 | 2.4449 | 5.0000e-005 | 4.0000e-005 | 2.4594 |
| Unrefrigerated Warehouse-No Rail | 19401.6 | 1.0000e-004 | 9.5000e-004 | 8.0000e-004 | 1.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 1.0353 | 1.0353 | 2.0000e-005 | 2.0000e-005 | 1.0415 |
| **Total** | | **2.0100e-003** | **0.0183** | **0.0154** | **1.1000e-004** | | **1.3900e-003** | **1.3900e-003** | | **1.3900e-003** | **1.3900e-003** | **0.0000** | **19.9097** | **19.9097** | **3.8000e-004** | **3.6000e-004** | **20.0280** |

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Automobile Care Center | 307877 | 1.6600e-003 | 0.0151 | 0.0127 | 9.0000e-005 | | 1.1500e-003 | 1.1500e-003 | | 1.1500e-003 | 1.1500e-003 | 0.0000 | 16.4295 | 16.4295 | 3.1000e-004 | 3.0000e-004 | 16.5271 |
| Health Club | 45815 | 2.5000e-004 | 2.2500e-003 | 1.8900e-003 | 1.0000e-005 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 2.4449 | 2.4449 | 5.0000e-005 | 4.0000e-005 | 2.4594 |
| Unrefrigerated Warehouse-No Rail | 19401.6 | 1.0000e-004 | 9.5000e-004 | 8.0000e-004 | 1.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 1.0353 | 1.0353 | 2.0000e-005 | 2.0000e-005 | 1.0415 |
| **Total** | | **2.0100e-003** | **0.0183** | **0.0154** | **1.1000e-004** | | **1.3900e-003** | **1.3900e-003** | | **1.3900e-003** | **1.3900e-003** | **0.0000** | **19.9097** | **19.9097** | **3.8000e-004** | **3.6000e-004** | **20.0280** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Automobile Care Center | 95256 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 14175 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 19740 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

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

## 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Automobile Care Center | 95256 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 14175 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 19740 | 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

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0848 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| Unmitigated | 0.0848 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |

## 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 | 9.9900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0748 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.0000e-005 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| **Total** | **0.0848** | **0.0000** | **1.8000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **3.4000e-004** | **3.4000e-004** | **0.0000** | **0.0000** | **3.6000e-004** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 9.9900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0748 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.0000e-005 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| **Total** | **0.0848** | **0.0000** | **1.8000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **3.4000e-004** | **3.4000e-004** | **0.0000** | **0.0000** | **3.6000e-004** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Existing to be Removed AQ Operational - Bay Area AQMD Air District, 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 | 0.8895 | 3.0600e-003 | 1.9300e-003 | 1.5425 |
| Unmitigated | 0.8895 | 3.0600e-003 | 1.9300e-003 | 1.5425 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Automobile Care Center | 1.10639 / 0.678112 | 0.3914 | 1.3500e-003 | 8.5000e-004 | 0.6788 |
| Health Club | 0.103501 / 0.0634358 | 0.0366 | 1.3000e-004 | 8.0000e-005 | 0.0635 |
| Unrefrigerated Warehouse-No Rail | 1.30425 / 0 | 0.4615 | 1.5900e-003 | 1.0000e-003 | 0.8002 |
| **Total** | | **0.8895** | **3.0700e-003** | **1.9300e-003** | **1.5425** |

## 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Automobile Care Center | 1.10639 / 0.678112 | 0.3914 | 1.3500e-003 | 8.5000e-004 | 0.6788 |
| Health Club | 0.103501 / 0.0634358 | 0.0366 | 1.3000e-004 | 8.0000e-005 | 0.0635 |
| Unrefrigerated Warehouse-No Rail | 1.30425 / 0 | 0.4615 | 1.5900e-003 | 1.0000e-003 | 0.8002 |
| **Total** | | **0.8895** | **3.0700e-003** | **1.9300e-003** | **1.5425** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 12.2180 | 0.7221 | 0.0000 | 30.2696 |
| Unmitigated | 12.2180 | 0.7221 | 0.0000 | 30.2696 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Automobile Care Center | 44.92 | 9.1184 | 0.5389 | 0.0000 | 22.5903 |
| Health Club | 9.97 | 2.0238 | 0.1196 | 0.0000 | 5.0139 |
| Unrefrigerated Warehouse-No Rail | 5.3 | 1.0759 | 0.0636 | 0.0000 | 2.6654 |
| **Total** | | **12.2180** | **0.7221** | **0.0000** | **30.2697** |

Existing to be Removed AQ Operational - Bay Area AQMD Air District, Annual

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

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Automobile Care Center | 44.92 | 9.1184 | 0.5389 | 0.0000 | 22.5903 |
| Health Club | 9.97 | 2.0238 | 0.1196 | 0.0000 | 5.0139 |
| Unrefrigerated Warehouse-No Rail | 5.3 | 1.0759 | 0.0636 | 0.0000 | 2.6654 |
| **Total** | | **12.2180** | **0.7221** | **0.0000** | **30.2697** |

## 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**

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

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

## 11.0 Vegetation

200 Portage Avenue GHG Alternative 3 - Bay Area AQMD Air District, Annual

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

# 200 Portage Avenue GHG Alternative 3

**Bay Area AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Research & Development | 11.76 | 1000sqft | 0.00 | 11,762.00 | 0 |
| Parking Lot | 36.00 | Space | 0.00 | 14,400.00 | 0 |
| Apartments Mid Rise | 75.00 | Dwelling Unit | 0.00 | 75,000.00 | 215 |
| Condo/Townhouse High Rise | 74.00 | Dwelling Unit | 14.23 | 74,000.00 | 212 |
| Strip Mall | 2.60 | 1000sqft | 0.00 | 2,600.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2030 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Based on new R&D replaced auto (11,762sf), new retail (2,600sf), 74 townhomes, and 75 BMR units. Parking assumptions from proposed project.

Construction Phase - Based on proposed project assumptions for a construction schedule of 18 months and 6 days a week.

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

200 Portage Avenue GHG Alternative 3 - Bay Area AQMD Air District, Annual

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

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Off-road Equipment - Based on proposed project assumptions

Trips and VMT - Hauling trip length based on applicant provided information of 16 miles to Zanker Recycling.

Demolition - Based on Alt 3 demolition info for warehouse, vacant retail, and 3040 Park Blv building.

Grading - Based on proposed project assumptions of 2,000 cubic yards of export and 1,500 cubic yards of import.

Architectural Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Vehicle Trips - Trip gen rate reduced to match W-Trans Transportation Analysis

Woodstoves - BAAQMD Regulation 6 Rule 3, No woodburning devices

Area Coating - BAAQMD Regulation 8 Rule 3, used Non-Flat Coating and Traffic Marking Coatings

Energy Use - All-electric pursuant to the City's All-Electric Mandate and 2019 Energy Reach Code Ordinances: https://www.cityofpaloalto.org/files/assets/public/development-services/green-building-files/2020-all-electric-mandate-summary_final03.31.2020.pdf?t=58748.46

Water And Wastewater - The Regional Water Quality Control Plant is 100% aerobic, no septic tank on site or facultative lagoons on wastewater treatment plant.

Construction Off-road Equipment Mitigation - Pursuant to Palo Alto Comprehensive Plan Polich N-5.5 and Comprehensive Plan EIR Mitigation Measure AIR-2a, comply with BAAQMD Basic Construction Mitigation Measures. All equipment will be equipped with DPFs according to applicant provided information.

Energy Mitigation - Pursuant to Section 150.1(b)14 of the 2019 Building Energy Efficiency Standards, residential uses under three stories must install PV solar panels that generate an amount of electricity equal to expected electricity usage. Percentage solar for townhomes

Water Mitigation - Pursuant to CalGreen 20 percent reduction in indoor water use.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 150.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 150.00 | 100.00 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |

200 Portage Avenue GHG Alternative 3 - Bay Area AQMD Air District, Annual

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

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | DPF | No Change | Level 3 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstructionPhase | NumDays | 20.00 | 160.00 |
| tblConstructionPhase | NumDays | 300.00 | 170.00 |
| tblConstructionPhase | NumDays | 20.00 | 50.00 |
| tblConstructionPhase | NumDays | 30.00 | 15.00 |
| tblConstructionPhase | NumDays | 20.00 | 60.00 |
| tblConstructionPhase | NumDays | 10.00 | 5.00 |

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

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 6.00 |
| tblEnergyUse | NT24E | 3,054.10 | 6,209.10 |
| tblEnergyUse | NT24E | 3,054.10 | 6,209.10 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | NT24NG | 3,155.00 | 0.00 |
| tblEnergyUse | T24E | 70.89 | 1,602.68 |
| tblEnergyUse | T24E | 70.89 | 1,602.68 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblEnergyUse | T24NG | 5,226.68 | 0.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceDayYear | 11.14 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.50 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 228.80 | 0.00 |
| tblFireplaces | NumberGas | 11.25 | 0.00 |
| tblFireplaces | NumberGas | 11.10 | 0.00 |
| tblFireplaces | NumberNoFireplace | 3.00 | 0.00 |
| tblFireplaces | NumberNoFireplace | 2.96 | 0.00 |
| tblFireplaces | NumberWood | 12.75 | 0.00 |
| tblFireplaces | NumberWood | 12.58 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 2,000.00 |
| tblGrading | MaterialImported | 0.00 | 1,500.00 |

200 Portage Avenue GHG Alternative 3 - Bay Area AQMD Air District, Annual

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

| | | | |
|---|---|---|---|
| tblLandUse | LandUseSquareFeet | 11,760.00 | 11,762.00 |
| tblLandUse | LotAcreage | 0.27 | 0.00 |
| tblLandUse | LotAcreage | 0.32 | 0.00 |
| tblLandUse | LotAcreage | 1.97 | 0.00 |
| tblLandUse | LotAcreage | 1.16 | 14.23 |
| tblLandUse | LotAcreage | 0.06 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |

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

| | | | |
|---|---|---|---|
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 16.00 |
| tblVehicleTrips | WD_TR | 5.44 | 3.75 |
| tblVehicleTrips | WD_TR | 5.44 | 7.20 |
| tblVehicleTrips | WD_TR | 11.26 | 10.40 |
| tblVehicleTrips | WD_TR | 44.32 | 46.50 |
| 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 | 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 | 1.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 1.48 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.48 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 14.12 | 0.00 |

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

| | | | |
|---|---|---|---|
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

## 2.0 Emissions Summary

200 Portage Avenue GHG Alternative 3 - Bay Area AQMD Air District, Annual

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

## 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 | | | | | |
| 2022 | 0.1362 | 1.3457 | 1.5337 | 2.8100e-003 | 0.1519 | 0.0619 | 0.2138 | 0.0505 | 0.0571 | 0.1075 | 0.0000 | 250.0758 | 250.0758 | 0.0656 | 5.0800e-003 | 253.2298 |
| 2023 | 1.1982 | 1.4350 | 2.1139 | 3.8100e-003 | 0.0898 | 0.0711 | 0.1609 | 0.0241 | 0.0681 | 0.0923 | 0.0000 | 335.7145 | 335.7145 | 0.0500 | 5.9000e-003 | 338.7226 |
| **Maximum** | **1.1982** | **1.4350** | **2.1139** | **3.8100e-003** | **0.1519** | **0.0711** | **0.2138** | **0.0505** | **0.0681** | **0.1075** | **0.0000** | **335.7145** | **335.7145** | **0.0656** | **5.9000e-003** | **338.7226** |

### 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 | | | | | |
| 2022 | 0.1362 | 1.3457 | 1.5337 | 2.8100e-003 | 0.0873 | 0.0100 | 0.0973 | 0.0278 | 9.2600e-003 | 0.0371 | 0.0000 | 250.0755 | 250.0755 | 0.0656 | 5.0800e-003 | 253.2296 |
| 2023 | 1.1982 | 1.4350 | 2.1139 | 3.8100e-003 | 0.0898 | 0.0113 | 0.1012 | 0.0241 | 0.0109 | 0.0350 | 0.0000 | 335.7142 | 335.7142 | 0.0500 | 5.9000e-003 | 338.7223 |
| **Maximum** | **1.1982** | **1.4350** | **2.1139** | **3.8100e-003** | **0.0898** | **0.0113** | **0.1012** | **0.0278** | **0.0109** | **0.0371** | **0.0000** | **335.7142** | **335.7142** | **0.0656** | **5.9000e-003** | **338.7223** |

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **26.71** | **83.94** | **47.02** | **30.37** | **83.94** | **63.94** | **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) |
|---|---|---|---|---|
| **1** | **6-1-2022** | **8-31-2022** | 0.8399 | 0.8399 |
| **2** | **9-1-2022** | **11-30-2022** | 0.4509 | 0.4509 |
| **3** | **12-1-2022** | **2-28-2023** | 0.4818 | 0.4818 |
| **4** | **3-1-2023** | **5-31-2023** | 0.8616 | 0.8616 |
| **5** | **6-1-2023** | **8-31-2023** | 0.8527 | 0.8527 |
| **6** | **9-1-2023** | **9-30-2023** | 0.2647 | 0.2647 |
| | | **Highest** | 0.8616 | 0.8616 |

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

## 2.2 Overall Operational

**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7847 | 0.0127 | 1.1039 | 6.0000e-005 | | 6.1400e-003 | 6.1400e-003 | | 6.1400e-003 | 6.1400e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7200e-003 | 0.0000 | 1.8512 |
| Energy | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | | 1.1700e-003 | 1.1700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7569 | 16.7569 | 3.2000e-004 | 3.1000e-004 | 16.8565 |
| Mobile | 0.3225 | 0.3449 | 3.0627 | 6.4000e-003 | 0.8058 | 4.2800e-003 | 0.8101 | 0.2153 | 3.9900e-003 | 0.2193 | 0.0000 | 624.4587 | 624.4587 | 0.0382 | 0.0289 | 634.0163 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 14.6478 | 0.0000 | 14.6478 | 0.8657 | 0.0000 | 36.2894 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.5486 | 0.0000 | 5.5486 | 0.0191 | 0.0121 | 9.6219 |
| **Total** | **1.1089** | **0.3730** | **4.1796** | **6.5500e-003** | **0.8058** | **0.0116** | **0.8174** | **0.2153** | **0.0113** | **0.2266** | **20.1965** | **643.0237** | **663.2201** | **0.9250** | **0.0412** | **698.6352** |

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

## 2.2 Overall Operational

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7847 | 0.0127 | 1.1039 | 6.0000e-005 | | 6.1400e-003 | 6.1400e-003 | | 6.1400e-003 | 6.1400e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7200e-003 | 0.0000 | 1.8512 |
| Energy | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | | 1.1700e-003 | 1.1700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7569 | 16.7569 | 3.2000e-004 | 3.1000e-004 | 16.8565 |
| Mobile | 0.3225 | 0.3449 | 3.0627 | 6.4000e-003 | 0.8058 | 4.2800e-003 | 0.8101 | 0.2153 | 3.9900e-003 | 0.2193 | 0.0000 | 624.4587 | 624.4587 | 0.0382 | 0.0289 | 634.0163 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 14.6478 | 0.0000 | 14.6478 | 0.8657 | 0.0000 | 36.2894 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 4.4389 | 0.0000 | 4.4389 | 0.0153 | 9.6500e-003 | 7.6975 |
| **Total** | **1.1089** | **0.3730** | **4.1796** | **6.5500e-003** | **0.8058** | **0.0116** | **0.8174** | **0.2153** | **0.0113** | **0.2266** | **19.0867** | **643.0237** | **662.1104** | **0.9212** | **0.0388** | **696.7108** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **5.49** | **0.00** | **0.17** | **0.41** | **5.87** | **0.28** |

## 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 | 6/1/2022 | 7/28/2022 | 6 | 50 | |
| 2 | Site Preparation | Site Preparation | 7/29/2022 | 8/3/2022 | 6 | 5 | |
| 3 | Grading | Grading | 8/4/2022 | 8/20/2022 | 6 | 15 | |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | Trenching | Trenching | 8/22/2022 | 11/22/2022 | 6 | 80 | |
| 5 | Building Construction | Building Construction | 11/23/2022 | 6/8/2023 | 6 | 170 | |
| 6 | Architectural Coating | Architectural Coating | 4/18/2023 | 10/20/2023 | 6 | 160 | |
| 7 | Paving | Paving | 10/21/2023 | 12/29/2023 | 6 | 60 | |

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 22.5**

**Acres of Paving: 0**

**Residential Indoor: 301,725; Residential Outdoor: 100,575; Non-Residential Indoor: 21,543; Non-Residential Outdoor: 7,181; Striped Parking Area: 864 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 0 | 0.00 | 81 | 0.73 |
| Demolition | Excavators | 2 | 8.00 | 158 | 0.38 |
| Demolition | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Skid Steer Loaders | 6 | 8.00 | 65 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 0 | 8.00 | 158 | 0.38 |
| Grading | Graders | 2 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Trenching | Excavators | 2 | 8.00 | 158 | 0.38 |
| Trenching | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 0 | 0.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 0 | 0.00 | 84 | 0.74 |

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| | | | | | |
|---|---|---|---|---|---|
| Building Construction | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 4 | 8.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 0 | 0.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 0 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 10 | 25.00 | 0.00 | 404.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 5 | 13.00 | 0.00 | 438.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Trenching | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 118.00 | 21.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 4 | 24.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 16.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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

## 3.2 Demolition - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0437 | 0.0000 | 0.0437 | 6.6200e-003 | 0.0000 | 6.6200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0443 | 0.4744 | 0.4892 | 8.2000e-004 | | 0.0217 | 0.0217 | | 0.0199 | 0.0199 | 0.0000 | 72.0632 | 72.0632 | 0.0233 | 0.0000 | 72.6459 |
| **Total** | **0.0443** | **0.4744** | **0.4892** | **8.2000e-004** | **0.0437** | **0.0217** | **0.0654** | **6.6200e-003** | **0.0199** | **0.0265** | **0.0000** | **72.0632** | **72.0632** | **0.0233** | **0.0000** | **72.6459** |

### 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 | 7.9000e-004 | 0.0286 | 6.4500e-003 | 1.0000e-004 | 2.7300e-003 | 2.5000e-004 | 2.9800e-003 | 7.5000e-004 | 2.4000e-004 | 9.9000e-004 | 0.0000 | 10.2311 | 10.2311 | 3.4000e-004 | 1.6200e-003 | 10.7224 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.7200e-003 | 1.2400e-003 | 0.0150 | 4.0000e-005 | 4.9400e-003 | 3.0000e-005 | 4.9700e-003 | 1.3100e-003 | 2.0000e-005 | 1.3400e-003 | 0.0000 | 3.9720 | 3.9720 | 1.2000e-004 | 1.1000e-004 | 4.0092 |
| **Total** | **2.5100e-003** | **0.0298** | **0.0214** | **1.4000e-004** | **7.6700e-003** | **2.8000e-004** | **7.9500e-003** | **2.0600e-003** | **2.6000e-004** | **2.3300e-003** | **0.0000** | **14.2031** | **14.2031** | **4.6000e-004** | **1.7300e-003** | **14.7316** |

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

## 3.2 Demolition - 2022

### 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 | | | | | 0.0197 | 0.0000 | 0.0197 | 2.9800e-003 | 0.0000 | 2.9800e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0443 | 0.4744 | 0.4892 | 8.2000e-004 | | 3.2500e-003 | 3.2500e-003 | | 2.9900e-003 | 2.9900e-003 | 0.0000 | 72.0631 | 72.0631 | 0.0233 | 0.0000 | 72.6458 |
| **Total** | **0.0443** | **0.4744** | **0.4892** | **8.2000e-004** | **0.0197** | **3.2500e-003** | **0.0229** | **2.9800e-003** | **2.9900e-003** | **5.9700e-003** | **0.0000** | **72.0631** | **72.0631** | **0.0233** | **0.0000** | **72.6458** |

### 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 | 7.9000e-004 | 0.0286 | 6.4500e-003 | 1.0000e-004 | 2.7300e-003 | 2.5000e-004 | 2.9800e-003 | 7.5000e-004 | 2.4000e-004 | 9.9000e-004 | 0.0000 | 10.2311 | 10.2311 | 3.4000e-004 | 1.6200e-003 | 10.7224 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.7200e-003 | 1.2400e-003 | 0.0150 | 4.0000e-005 | 4.9400e-003 | 3.0000e-005 | 4.9700e-003 | 1.3100e-003 | 2.0000e-005 | 1.3400e-003 | 0.0000 | 3.9720 | 3.9720 | 1.2000e-004 | 1.1000e-004 | 4.0092 |
| **Total** | **2.5100e-003** | **0.0298** | **0.0214** | **1.4000e-004** | **7.6700e-003** | **2.8000e-004** | **7.9500e-003** | **2.0600e-003** | **2.6000e-004** | **2.3300e-003** | **0.0000** | **14.2031** | **14.2031** | **4.6000e-004** | **1.7300e-003** | **14.7316** |

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

## 3.3 Site Preparation - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0164 | 0.0000 | 0.0164 | 8.4200e-003 | 0.0000 | 8.4200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.9200e-003 | 0.0304 | 0.0201 | 4.0000e-005 | | 1.4900e-003 | 1.4900e-003 | | 1.3700e-003 | 1.3700e-003 | 0.0000 | 3.2421 | 3.2421 | 1.0500e-003 | 0.0000 | 3.2683 |
| **Total** | **2.9200e-003** | **0.0304** | **0.0201** | **4.0000e-005** | **0.0164** | **1.4900e-003** | **0.0179** | **8.4200e-003** | **1.3700e-003** | **9.7900e-003** | **0.0000** | **3.2421** | **3.2421** | **1.0500e-003** | **0.0000** | **3.2683** |

### 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 | 5.0000e-005 | 4.0000e-005 | 4.8000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 4.0000e-005 | 0.0000 | 4.0000e-005 | 0.0000 | 0.1271 | 0.1271 | 0.0000 | 0.0000 | 0.1283 |
| **Total** | **5.0000e-005** | **4.0000e-005** | **4.8000e-004** | **0.0000** | **1.6000e-004** | **0.0000** | **1.6000e-004** | **4.0000e-005** | **0.0000** | **4.0000e-005** | **0.0000** | **0.1271** | **0.1271** | **0.0000** | **0.0000** | **0.1283** |

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

## 3.3 Site Preparation - 2022

### 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 | | | | | 7.3700e-003 | 0.0000 | 7.3700e-003 | 3.7900e-003 | 0.0000 | 3.7900e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.9200e-003 | 0.0304 | 0.0201 | 4.0000e-005 | | 2.2000e-004 | 2.2000e-004 | | 2.1000e-004 | 2.1000e-004 | 0.0000 | 3.2421 | 3.2421 | 1.0500e-003 | 0.0000 | 3.2683 |
| **Total** | **2.9200e-003** | **0.0304** | **0.0201** | **4.0000e-005** | **7.3700e-003** | **2.2000e-004** | **7.5900e-003** | **3.7900e-003** | **2.1000e-004** | **4.0000e-003** | **0.0000** | **3.2421** | **3.2421** | **1.0500e-003** | **0.0000** | **3.2683** |

### 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 | 5.0000e-005 | 4.0000e-005 | 4.8000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 4.0000e-005 | 0.0000 | 4.0000e-005 | 0.0000 | 0.1271 | 0.1271 | 0.0000 | 0.0000 | 0.1283 |
| **Total** | **5.0000e-005** | **4.0000e-005** | **4.8000e-004** | **0.0000** | **1.6000e-004** | **0.0000** | **1.6000e-004** | **4.0000e-005** | **0.0000** | **4.0000e-005** | **0.0000** | **0.1271** | **0.1271** | **0.0000** | **0.0000** | **0.1283** |

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## 3.4 Grading - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0573 | 0.0000 | 0.0573 | 0.0261 | 0.0000 | 0.0261 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0150 | 0.1700 | 0.0863 | 2.1000e-004 | | 6.9900e-003 | 6.9900e-003 | | 6.4300e-003 | 6.4300e-003 | 0.0000 | 18.4526 | 18.4526 | 5.9700e-003 | 0.0000 | 18.6018 |
| **Total** | **0.0150** | **0.1700** | **0.0863** | **2.1000e-004** | **0.0573** | **6.9900e-003** | **0.0643** | **0.0261** | **6.4300e-003** | **0.0326** | **0.0000** | **18.4526** | **18.4526** | **5.9700e-003** | **0.0000** | **18.6018** |

### 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 | 8.6000e-004 | 0.0310 | 6.9900e-003 | 1.1000e-004 | 2.9600e-003 | 2.7000e-004 | 3.2300e-003 | 8.2000e-004 | 2.6000e-004 | 1.0700e-003 | 0.0000 | 11.0922 | 11.0922 | 3.6000e-004 | 1.7600e-003 | 11.6248 |
| 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 | 2.7000e-004 | 1.9000e-004 | 2.3300e-003 | 1.0000e-005 | 7.7000e-004 | 0.0000 | 7.7000e-004 | 2.0000e-004 | 0.0000 | 2.1000e-004 | 0.0000 | 0.6196 | 0.6196 | 2.0000e-005 | 2.0000e-005 | 0.6254 |
| **Total** | **1.1300e-003** | **0.0312** | **9.3200e-003** | **1.2000e-004** | **3.7300e-003** | **2.7000e-004** | **4.0000e-003** | **1.0200e-003** | **2.6000e-004** | **1.2800e-003** | **0.0000** | **11.7118** | **11.7118** | **3.8000e-004** | **1.7800e-003** | **12.2502** |

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

## 3.4 Grading - 2022

### 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 | | | | | 0.0258 | 0.0000 | 0.0258 | 0.0118 | 0.0000 | 0.0118 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0150 | 0.1700 | 0.0863 | 2.1000e-004 | | 1.0500e-003 | 1.0500e-003 | | 9.6000e-004 | 9.6000e-004 | 0.0000 | 18.4526 | 18.4526 | 5.9700e-003 | 0.0000 | 18.6018 |
| **Total** | **0.0150** | **0.1700** | **0.0863** | **2.1000e-004** | **0.0258** | **1.0500e-003** | **0.0268** | **0.0118** | **9.6000e-004** | **0.0127** | **0.0000** | **18.4526** | **18.4526** | **5.9700e-003** | **0.0000** | **18.6018** |

### 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 | 8.6000e-004 | 0.0310 | 6.9900e-003 | 1.1000e-004 | 2.9600e-003 | 2.7000e-004 | 3.2300e-003 | 8.2000e-004 | 2.6000e-004 | 1.0700e-003 | 0.0000 | 11.0922 | 11.0922 | 3.6000e-004 | 1.7600e-003 | 11.6248 |
| 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 | 2.7000e-004 | 1.9000e-004 | 2.3300e-003 | 1.0000e-005 | 7.7000e-004 | 0.0000 | 7.7000e-004 | 2.0000e-004 | 0.0000 | 2.1000e-004 | 0.0000 | 0.6196 | 0.6196 | 2.0000e-005 | 2.0000e-005 | 0.6254 |
| **Total** | **1.1300e-003** | **0.0312** | **9.3200e-003** | **1.2000e-004** | **3.7300e-003** | **2.7000e-004** | **4.0000e-003** | **1.0200e-003** | **2.6000e-004** | **1.2800e-003** | **0.0000** | **11.7118** | **11.7118** | **3.8000e-004** | **1.7800e-003** | **12.2502** |

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

## 3.5 Trenching - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0426 | 0.4103 | 0.6185 | 9.1000e-004 | | 0.0213 | 0.0213 | | 0.0196 | 0.0196 | 0.0000 | 80.0132 | 80.0132 | 0.0259 | 0.0000 | 80.6602 |
| **Total** | **0.0426** | **0.4103** | **0.6185** | **9.1000e-004** | | **0.0213** | **0.0213** | | **0.0196** | **0.0196** | **0.0000** | **80.0132** | **80.0132** | **0.0259** | **0.0000** | **80.6602** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6500e-003 | 1.1900e-003 | 0.0144 | 4.0000e-005 | 4.7400e-003 | 3.0000e-005 | 4.7700e-003 | 1.2600e-003 | 2.0000e-005 | 1.2800e-003 | 0.0000 | 3.8131 | 3.8131 | 1.2000e-004 | 1.1000e-004 | 3.8488 |
| **Total** | **1.6500e-003** | **1.1900e-003** | **0.0144** | **4.0000e-005** | **4.7400e-003** | **3.0000e-005** | **4.7700e-003** | **1.2600e-003** | **2.0000e-005** | **1.2800e-003** | **0.0000** | **3.8131** | **3.8131** | **1.2000e-004** | **1.1000e-004** | **3.8488** |

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

## 3.5 Trenching - 2022

### 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 | 0.0426 | 0.4103 | 0.6185 | 9.1000e-004 | | 3.1900e-003 | 3.1900e-003 | | 2.9400e-003 | 2.9400e-003 | 0.0000 | 80.0131 | 80.0131 | 0.0259 | 0.0000 | 80.6601 |
| **Total** | **0.0426** | **0.4103** | **0.6185** | **9.1000e-004** | | **3.1900e-003** | **3.1900e-003** | | **2.9400e-003** | **2.9400e-003** | **0.0000** | **80.0131** | **80.0131** | **0.0259** | **0.0000** | **80.6601** |

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6500e-003 | 1.1900e-003 | 0.0144 | 4.0000e-005 | 4.7400e-003 | 3.0000e-005 | 4.7700e-003 | 1.2600e-003 | 2.0000e-005 | 1.2800e-003 | 0.0000 | 3.8131 | 3.8131 | 1.2000e-004 | 1.1000e-004 | 3.8488 |
| **Total** | **1.6500e-003** | **1.1900e-003** | **0.0144** | **4.0000e-005** | **4.7400e-003** | **3.0000e-005** | **4.7700e-003** | **1.2600e-003** | **2.0000e-005** | **1.2800e-003** | **0.0000** | **3.8131** | **3.8131** | **1.2000e-004** | **1.1000e-004** | **3.8488** |

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

## 3.6 Building Construction - 2022

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1747 | 0.2202 | 3.1000e-004 | | 9.5900e-003 | 9.5900e-003 | | 8.9100e-003 | 8.9100e-003 | 0.0000 | 26.3487 | 26.3487 | 7.8700e-003 | 0.0000 | 26.5454 |
| **Total** | **0.0198** | **0.1747** | **0.2202** | **3.1000e-004** | | **9.5900e-003** | **9.5900e-003** | | **8.9100e-003** | **8.9100e-003** | **0.0000** | **26.3487** | **26.3487** | **7.8700e-003** | **0.0000** | **26.5454** |

### 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 | 7.6000e-004 | 0.0200 | 5.8100e-003 | 8.0000e-005 | 2.3400e-003 | 2.1000e-004 | 2.5500e-003 | 6.8000e-004 | 2.0000e-004 | 8.7000e-004 | 0.0000 | 7.3525 | 7.3525 | 1.6000e-004 | 1.0900e-003 | 7.6814 |
| Worker | 5.5100e-003 | 3.9700e-003 | 0.0480 | 1.4000e-004 | 0.0159 | 9.0000e-005 | 0.0159 | 4.2200e-003 | 8.0000e-005 | 4.3000e-003 | 0.0000 | 12.7484 | 12.7484 | 4.0000e-004 | 3.7000e-004 | 12.8679 |
| **Total** | **6.2700e-003** | **0.0239** | **0.0538** | **2.2000e-004** | **0.0182** | **3.0000e-004** | **0.0185** | **4.9000e-003** | **2.8000e-004** | **5.1700e-003** | **0.0000** | **20.1009** | **20.1009** | **5.6000e-004** | **1.4600e-003** | **20.5493** |

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

## 3.6 Building Construction - 2022

**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 | 0.0198 | 0.1747 | 0.2202 | 3.1000e-004 | | 1.4400e-003 | 1.4400e-003 | | 1.3400e-003 | 1.3400e-003 | 0.0000 | 26.3486 | 26.3486 | 7.8700e-003 | 0.0000 | 26.5454 |
| **Total** | **0.0198** | **0.1747** | **0.2202** | **3.1000e-004** | | **1.4400e-003** | **1.4400e-003** | | **1.3400e-003** | **1.3400e-003** | **0.0000** | **26.3486** | **26.3486** | **7.8700e-003** | **0.0000** | **26.5454** |

**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 | 7.6000e-004 | 0.0200 | 5.8100e-003 | 8.0000e-005 | 2.3400e-003 | 2.1000e-004 | 2.5500e-003 | 6.8000e-004 | 2.0000e-004 | 8.7000e-004 | 0.0000 | 7.3525 | 7.3525 | 1.6000e-004 | 1.0900e-003 | 7.6814 |
| Worker | 5.5100e-003 | 3.9700e-003 | 0.0480 | 1.4000e-004 | 0.0159 | 9.0000e-005 | 0.0159 | 4.2200e-003 | 8.0000e-005 | 4.3000e-003 | 0.0000 | 12.7484 | 12.7484 | 4.0000e-004 | 3.7000e-004 | 12.8679 |
| **Total** | **6.2700e-003** | **0.0239** | **0.0538** | **2.2000e-004** | **0.0182** | **3.0000e-004** | **0.0185** | **4.9000e-003** | **2.8000e-004** | **5.1700e-003** | **0.0000** | **20.1009** | **20.1009** | **5.6000e-004** | **1.4600e-003** | **20.5493** |

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

## 3.6 Building Construction - 2023

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0724 | 0.6448 | 0.8767 | 1.2300e-003 | | 0.0324 | 0.0324 | | 0.0301 | 0.0301 | 0.0000 | 105.4779 | 105.4779 | 0.0314 | 0.0000 | 106.2622 |
| **Total** | **0.0724** | **0.6448** | **0.8767** | **1.2300e-003** | | **0.0324** | **0.0324** | | **0.0301** | **0.0301** | **0.0000** | **105.4779** | **105.4779** | **0.0314** | **0.0000** | **106.2622** |

### 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 | 1.5200e-003 | 0.0635 | 0.0199 | 2.9000e-004 | 9.3700e-003 | 3.7000e-004 | 9.7400e-003 | 2.7100e-003 | 3.6000e-004 | 3.0700e-003 | 0.0000 | 28.1881 | 28.1881 | 5.8000e-004 | 4.1700e-003 | 29.4451 |
| Worker | 0.0205 | 0.0141 | 0.1780 | 5.4000e-004 | 0.0634 | 3.3000e-004 | 0.0637 | 0.0169 | 3.0000e-004 | 0.0172 | 0.0000 | 49.6926 | 49.6926 | 1.4300e-003 | 1.3600e-003 | 50.1346 |
| **Total** | **0.0221** | **0.0776** | **0.1978** | **8.3000e-004** | **0.0728** | **7.0000e-004** | **0.0735** | **0.0196** | **6.6000e-004** | **0.0202** | **0.0000** | **77.8806** | **77.8806** | **2.0100e-003** | **5.5300e-003** | **79.5797** |

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

## 3.6 Building Construction - 2023

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0724 | 0.6448 | 0.8767 | 1.2300e-003 | | 4.8700e-003 | 4.8700e-003 | | 4.5200e-003 | 4.5200e-003 | 0.0000 | 105.4778 | 105.4778 | 0.0314 | 0.0000 | 106.2620 |
| **Total** | **0.0724** | **0.6448** | **0.8767** | **1.2300e-003** | | **4.8700e-003** | **4.8700e-003** | | **4.5200e-003** | **4.5200e-003** | **0.0000** | **105.4778** | **105.4778** | **0.0314** | **0.0000** | **106.2620** |

**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 | 1.5200e-003 | 0.0635 | 0.0199 | 2.9000e-004 | 9.3700e-003 | 3.7000e-004 | 9.7400e-003 | 2.7100e-003 | 3.6000e-004 | 3.0700e-003 | 0.0000 | 28.1881 | 28.1881 | 5.8000e-004 | 4.1700e-003 | 29.4451 |
| Worker | 0.0205 | 0.0141 | 0.1780 | 5.4000e-004 | 0.0634 | 3.3000e-004 | 0.0637 | 0.0169 | 3.0000e-004 | 0.0172 | 0.0000 | 49.6926 | 49.6926 | 1.4300e-003 | 1.3600e-003 | 50.1346 |
| **Total** | **0.0221** | **0.0776** | **0.1978** | **8.3000e-004** | **0.0728** | **7.0000e-004** | **0.0735** | **0.0196** | **6.6000e-004** | **0.0202** | **0.0000** | **77.8806** | **77.8806** | **2.0100e-003** | **5.5300e-003** | **79.5797** |

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

## 3.7 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.0009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0818 | 0.5559 | 0.7727 | 1.2700e-003 | | 0.0302 | 0.0302 | | 0.0302 | 0.0302 | 0.0000 | 108.9388 | 108.9388 | 6.5200e-003 | 0.0000 | 109.1018 |
| **Total** | **1.0827** | **0.5559** | **0.7727** | **1.2700e-003** | | **0.0302** | **0.0302** | | **0.0302** | **0.0302** | **0.0000** | **108.9388** | **108.9388** | **6.5200e-003** | **0.0000** | **109.1018** |

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.9100e-003 | 3.3600e-003 | 0.0426 | 1.3000e-004 | 0.0152 | 8.0000e-005 | 0.0153 | 4.0400e-003 | 7.0000e-005 | 4.1100e-003 | 0.0000 | 11.8905 | 11.8905 | 3.4000e-004 | 3.3000e-004 | 11.9963 |
| **Total** | **4.9100e-003** | **3.3600e-003** | **0.0426** | **1.3000e-004** | **0.0152** | **8.0000e-005** | **0.0153** | **4.0400e-003** | **7.0000e-005** | **4.1100e-003** | **0.0000** | **11.8905** | **11.8905** | **3.4000e-004** | **3.3000e-004** | **11.9963** |

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

## 3.7 Architectural Coating - 2023

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.0009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0818 | 0.5559 | 0.7727 | 1.2700e-003 | | 4.5300e-003 | 4.5300e-003 | | 4.5300e-003 | 4.5300e-003 | 0.0000 | 108.9387 | 108.9387 | 6.5200e-003 | 0.0000 | 109.1016 |
| **Total** | **1.0827** | **0.5559** | **0.7727** | **1.2700e-003** | | **4.5300e-003** | **4.5300e-003** | | **4.5300e-003** | **4.5300e-003** | **0.0000** | **108.9387** | **108.9387** | **6.5200e-003** | **0.0000** | **109.1016** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.9100e-003 | 3.3600e-003 | 0.0426 | 1.3000e-004 | 0.0152 | 8.0000e-005 | 0.0153 | 4.0400e-003 | 7.0000e-005 | 4.1100e-003 | 0.0000 | 11.8905 | 11.8905 | 3.4000e-004 | 3.3000e-004 | 11.9963 |
| **Total** | **4.9100e-003** | **3.3600e-003** | **0.0426** | **1.3000e-004** | **0.0152** | **8.0000e-005** | **0.0153** | **4.0400e-003** | **7.0000e-005** | **4.1100e-003** | **0.0000** | **11.8905** | **11.8905** | **3.4000e-004** | **3.3000e-004** | **11.9963** |

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

## 3.8 Paving - 2023

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0155 | 0.1529 | 0.2188 | 3.4000e-004 | | 7.6500e-003 | 7.6500e-003 | | 7.0400e-003 | 7.0400e-003 | 0.0000 | 30.0403 | 30.0403 | 9.7200e-003 | 0.0000 | 30.2832 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0155** | **0.1529** | **0.2188** | **3.4000e-004** | | **7.6500e-003** | **7.6500e-003** | | **7.0400e-003** | **7.0400e-003** | **0.0000** | **30.0403** | **30.0403** | **9.7200e-003** | **0.0000** | **30.2832** |

### 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 | 6.1000e-004 | 4.2000e-004 | 5.3200e-003 | 2.0000e-005 | 1.9000e-003 | 1.0000e-005 | 1.9100e-003 | 5.0000e-004 | 1.0000e-005 | 5.1000e-004 | 0.0000 | 1.4863 | 1.4863 | 4.0000e-005 | 4.0000e-005 | 1.4995 |
| **Total** | **6.1000e-004** | **4.2000e-004** | **5.3200e-003** | **2.0000e-005** | **1.9000e-003** | **1.0000e-005** | **1.9100e-003** | **5.0000e-004** | **1.0000e-005** | **5.1000e-004** | **0.0000** | **1.4863** | **1.4863** | **4.0000e-005** | **4.0000e-005** | **1.4995** |

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

## 3.8 Paving - 2023

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0155 | 0.1529 | 0.2188 | 3.4000e-004 | | 1.1500e-003 | 1.1500e-003 | | 1.0600e-003 | 1.0600e-003 | 0.0000 | 30.0403 | 30.0403 | 9.7200e-003 | 0.0000 | 30.2832 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0155** | **0.1529** | **0.2188** | **3.4000e-004** | | **1.1500e-003** | **1.1500e-003** | | **1.0600e-003** | **1.0600e-003** | **0.0000** | **30.0403** | **30.0403** | **9.7200e-003** | **0.0000** | **30.2832** |

**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 | 6.1000e-004 | 4.2000e-004 | 5.3200e-003 | 2.0000e-005 | 1.9000e-003 | 1.0000e-005 | 1.9100e-003 | 5.0000e-004 | 1.0000e-005 | 5.1000e-004 | 0.0000 | 1.4863 | 1.4863 | 4.0000e-005 | 4.0000e-005 | 1.4995 |
| **Total** | **6.1000e-004** | **4.2000e-004** | **5.3200e-003** | **2.0000e-005** | **1.9000e-003** | **1.0000e-005** | **1.9100e-003** | **5.0000e-004** | **1.0000e-005** | **5.1000e-004** | **0.0000** | **1.4863** | **1.4863** | **4.0000e-005** | **4.0000e-005** | **1.4995** |

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

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3225 | 0.3449 | 3.0627 | 6.4000e-003 | 0.8058 | 4.2800e-003 | 0.8101 | 0.2153 | 3.9900e-003 | 0.2193 | 0.0000 | 624.4587 | 624.4587 | 0.0382 | 0.0289 | 634.0163 |
| Unmitigated | 0.3225 | 0.3449 | 3.0627 | 6.4000e-003 | 0.8058 | 4.2800e-003 | 0.8101 | 0.2153 | 3.9900e-003 | 0.2193 | 0.0000 | 624.4587 | 624.4587 | 0.0382 | 0.0289 | 634.0163 |

### 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 281.25 | 368.25 | 306.75 | 686,696 | 686,696 |
| Condo/Townhouse High Rise | 532.80 | 363.34 | 302.66 | 1,098,713 | 1,098,713 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Research & Development | 122.30 | 22.34 | 13.05 | 231,619 | 231,619 |
| Strip Mall | 120.90 | 109.30 | 53.12 | 168,726 | 168,726 |
| Total | 1,057.25 | 863.24 | 675.58 | 2,185,755 | 2,185,755 |

### 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Condo/Townhouse High Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |

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

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Research & Development | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Condo/Townhouse High Rise | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Parking Lot | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Research & Development | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |
| Strip Mall | 0.555148 | 0.059467 | 0.187500 | 0.120419 | 0.022094 | 0.005825 | 0.011277 | 0.007430 | 0.000952 | 0.000505 | 0.025870 | 0.000875 | 0.002638 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 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 | 0.0000 |
| NaturalGas Mitigated | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | | 1.1700e-003 | 1.1700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7569 | 16.7569 | 3.2000e-004 | 3.1000e-004 | 16.8565 |
| NaturalGas Unmitigated | 1.6900e-003 | 0.0154 | 0.0129 | 9.0000e-005 | | 1.1700e-003 | 1.1700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 16.7569 | 16.7569 | 3.2000e-004 | 3.1000e-004 | 16.8565 |

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

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | 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 |
| 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 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 307929 | 1.6600e-003 | 0.0151 | 0.0127 | 9.0000e-005 | | 1.1500e-003 | 1.1500e-003 | | 1.1500e-003 | 1.1500e-003 | 0.0000 | 16.4323 | 16.4323 | 3.1000e-004 | 3.0000e-004 | 16.5299 |
| Strip Mall | 6084 | 3.0000e-005 | 3.0000e-004 | 2.5000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.3247 | 0.3247 | 1.0000e-005 | 1.0000e-005 | 0.3266 |
| **Total** | | **1.6900e-003** | **0.0154** | **0.0129** | **9.0000e-005** | | **1.1700e-003** | **1.1700e-003** | | **1.1700e-003** | **1.1700e-003** | **0.0000** | **16.7569** | **16.7569** | **3.2000e-004** | **3.1000e-004** | **16.8565** |

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | 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 |
| 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 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 307929 | 1.6600e-003 | 0.0151 | 0.0127 | 9.0000e-005 | | 1.1500e-003 | 1.1500e-003 | | 1.1500e-003 | 1.1500e-003 | 0.0000 | 16.4323 | 16.4323 | 3.1000e-004 | 3.0000e-004 | 16.5299 |
| Strip Mall | 6084 | 3.0000e-005 | 3.0000e-004 | 2.5000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.3247 | 0.3247 | 1.0000e-005 | 1.0000e-005 | 0.3266 |
| **Total** | | **1.6900e-003** | **0.0154** | **0.0129** | **9.0000e-005** | | **1.1700e-003** | **1.1700e-003** | | **1.1700e-003** | **1.1700e-003** | **0.0000** | **16.7569** | **16.7569** | **3.2000e-004** | **3.1000e-004** | **16.8565** |

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

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 641492 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse High Rise | 652153 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 5040 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 95272.2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 27014 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

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

## 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 307916 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse High Rise | 313033 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 2419.2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 45730.7 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 12966.7 | 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

No Hearths Installed

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.7847 | 0.0127 | 1.1039 | 6.0000e-005 | | 6.1400e-003 | 6.1400e-003 | | 6.1400e-003 | 6.1400e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7200e-003 | 0.0000 | 1.8512 |
| Unmitigated | 0.7847 | 0.0127 | 1.1039 | 6.0000e-005 | | 6.1400e-003 | 6.1400e-003 | | 6.1400e-003 | 6.1400e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7200e-003 | 0.0000 | 1.8512 |

## 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 | 0.1127 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6389 | | | | | 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 | 0.0331 | 0.0127 | 1.1039 | 6.0000e-005 | | 6.1400e-003 | 6.1400e-003 | | 6.1400e-003 | 6.1400e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7200e-003 | 0.0000 | 1.8512 |
| **Total** | **0.7847** | **0.0127** | **1.1039** | **6.0000e-005** | | **6.1400e-003** | **6.1400e-003** | | **6.1400e-003** | **6.1400e-003** | **0.0000** | **1.8081** | **1.8081** | **1.7200e-003** | **0.0000** | **1.8512** |

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1127 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6389 | | | | | 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 | 0.0331 | 0.0127 | 1.1039 | 6.0000e-005 | | 6.1400e-003 | 6.1400e-003 | | 6.1400e-003 | 6.1400e-003 | 0.0000 | 1.8081 | 1.8081 | 1.7200e-003 | 0.0000 | 1.8512 |
| **Total** | **0.7847** | **0.0127** | **1.1039** | **6.0000e-005** | | **6.1400e-003** | **6.1400e-003** | | **6.1400e-003** | **6.1400e-003** | **0.0000** | **1.8081** | **1.8081** | **1.7200e-003** | **0.0000** | **1.8512** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

200 Portage Avenue GHG Alternative 3 - Bay Area AQMD Air District, 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 | 4.4389 | 0.0153 | 9.6500e-003 | 7.6975 |
| Unmitigated | 5.5486 | 0.0191 | 0.0121 | 9.6219 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 4.88655 / 3.08065 | 1.7289 | 5.9500e-003 | 3.7600e-003 | 2.9980 |
| Condo/Townhouse High Rise | 4.8214 / 3.03958 | 1.7058 | 5.8700e-003 | 3.7100e-003 | 2.9581 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 5.78232 / 0 | 2.0458 | 7.0400e-003 | 4.4500e-003 | 3.5476 |
| Strip Mall | 0.192589 / 0.118038 | 0.0681 | 2.3000e-004 | 1.5000e-004 | 0.1182 |
| **Total** | | **5.5486** | **0.0191** | **0.0121** | **9.6219** |

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

## 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 3.90924 / 3.08065 | 1.3831 | 4.7600e-003 | 3.0100e-003 | 2.3984 |
| Condo/Townhouse High Rise | 3.85712 / 3.03958 | 1.3647 | 4.7000e-003 | 2.9700e-003 | 2.3665 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 4.62586 / 0 | 1.6366 | 5.6300e-003 | 3.5600e-003 | 2.8381 |
| Strip Mall | 0.154071 / 0.118038 | 0.0545 | 1.9000e-004 | 1.2000e-004 | 0.0945 |
| **Total** | | **4.4389** | **0.0153** | **9.6600e-003** | **7.6975** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

200 Portage Avenue GHG Alternative 3 - Bay Area AQMD Air District, Annual

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

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 14.6478 | 0.8657 | 0.0000 | 36.2894 |
| Unmitigated | 14.6478 | 0.8657 | 0.0000 | 36.2894 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 34.5 | 7.0032 | 0.4139 | 0.0000 | 17.3501 |
| Condo/Townhouse High Rise | 34.04 | 6.9098 | 0.4084 | 0.0000 | 17.1188 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 0.89 | 0.1807 | 0.0107 | 0.0000 | 0.4476 |
| Strip Mall | 2.73 | 0.5542 | 0.0328 | 0.0000 | 1.3729 |
| **Total** | | **14.6478** | **0.8657** | **0.0000** | **36.2894** |

200 Portage Avenue GHG Alternative 3 - Bay Area AQMD Air District, Annual

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

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 34.5 | 7.0032 | 0.4139 | 0.0000 | 17.3501 |
| Condo/Townhouse High Rise | 34.04 | 6.9098 | 0.4084 | 0.0000 | 17.1188 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Research & Development | 0.89 | 0.1807 | 0.0107 | 0.0000 | 0.4476 |
| Strip Mall | 2.73 | 0.5542 | 0.0328 | 0.0000 | 1.3729 |
| **Total** | | **14.6478** | **0.8657** | **0.0000** | **36.2894** |

## 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 |
|---|---|---|---|---|---|

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

**User Defined Equipment**

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

## 11.0 Vegetation

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

# Existing to be Removed Alt 3 Operational

**Bay Area AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 5.64 | 1000sqft | 0.13 | 5,640.00 | 0 |
| Health Club | 1.75 | 1000sqft | 0.04 | 1,750.00 | 0 |
| Automobile Care Center | 11.76 | 1000sqft | 0.77 | 11,762.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 4 | | | **Operational Year** | 2022 |
| **Utility Company** | City of Palo Alto Utilities Department | | | | |
| **CO2 Intensity (lb/MWhr)** | 0 | **CH4 Intensity (lb/MWhr)** | 0 | **N2O Intensity (lb/MWhr)** | 0 |

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

Project Characteristics - CPAU electricity has been 100% carbon neutral since 2013; https://www.cityofpaloalto.org/Departments/Utilities/Sustainability/Carbon-Neutral-Electricity-and-Natural-Gas

Land Use - Existing structures to remain not modelled. 84,000 sf of existing retail not modelled because currently vacant. Only structures to be removed modelled. Default industrial and recreational acreages.

Construction Phase - Existing operational model - construction not required.

Grading - Existing operational model

Off-road Equipment - Operational model

Vehicle Trips - Default CalEEMod trip rates

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

Fleet Mix -

Area Coating -

Water And Wastewater - Regional Wastewater Treatment Plant 100 percent aerobic

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 1.00 | 0.00 |
| tblLandUse | LandUseSquareFeet | 11,760.00 | 11,762.00 |
| tblLandUse | LotAcreage | 0.27 | 0.77 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| 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 | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

## 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 | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | N20 | 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) |
|---|---|---|---|---|

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

| | | | | |
|---|---|---|---|---|
| | | **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 | 0.0848 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| Energy | 2.0100e-003 | 0.0183 | 0.0154 | 1.1000e-004 | | 1.3900e-003 | 1.3900e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 19.9125 | 19.9125 | 3.8000e-004 | 3.7000e-004 | 20.0308 |
| Mobile | 0.1174 | 0.1129 | 0.8688 | 1.4300e-003 | 0.1395 | 1.3300e-003 | 0.1408 | 0.0373 | 1.2400e-003 | 0.0385 | 0.0000 | 132.5514 | 132.5514 | 0.0128 | 8.1800e-003 | 135.3066 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 12.2180 | 0.0000 | 12.2180 | 0.7221 | 0.0000 | 30.2696 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.8895 | 0.0000 | 0.8895 | 3.0600e-003 | 1.9300e-003 | 1.5425 |
| **Total** | **0.2042** | **0.1312** | **0.8843** | **1.5400e-003** | **0.1395** | **2.7200e-003** | **0.1422** | **0.0373** | **2.6300e-003** | **0.0399** | **13.1075** | **152.4642** | **165.5717** | **0.7383** | **0.0105** | **187.1499** |

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.0848 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| Energy | 2.0100e-003 | 0.0183 | 0.0154 | 1.1000e-004 | | 1.3900e-003 | 1.3900e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 19.9125 | 19.9125 | 3.8000e-004 | 3.7000e-004 | 20.0308 |
| Mobile | 0.1174 | 0.1129 | 0.8688 | 1.4300e-003 | 0.1395 | 1.3300e-003 | 0.1408 | 0.0373 | 1.2400e-003 | 0.0385 | 0.0000 | 132.5514 | 132.5514 | 0.0128 | 8.1800e-003 | 135.3066 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 12.2180 | 0.0000 | 12.2180 | 0.7221 | 0.0000 | 30.2696 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.8895 | 0.0000 | 0.8895 | 3.0600e-003 | 1.9300e-003 | 1.5425 |
| **Total** | **0.2042** | **0.1312** | **0.8843** | **1.5400e-003** | **0.1395** | **2.7200e-003** | **0.1422** | **0.0373** | **2.6300e-003** | **0.0399** | **13.1075** | **152.4642** | **165.5717** | **0.7383** | **0.0105** | **187.1499** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | 9/5/2022 | 9/4/2022 | 5 | 0 | |

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

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 0 | 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 | 0 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

## 3.2 Site Preparation - 2022

### Unmitigated Construction On-Site

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

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

## 3.2 Site Preparation - 2022

### 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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** |

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.1174 | 0.1129 | 0.8688 | 1.4300e-003 | 0.1395 | 1.3300e-003 | 0.1408 | 0.0373 | 1.2400e-003 | 0.0385 | 0.0000 | 132.5514 | 132.5514 | 0.0128 | 8.1800e-003 | 135.3066 |
| Unmitigated | 0.1174 | 0.1129 | 0.8688 | 1.4300e-003 | 0.1395 | 1.3300e-003 | 0.1408 | 0.0373 | 1.2400e-003 | 0.0385 | 0.0000 | 132.5514 | 132.5514 | 0.0128 | 8.1800e-003 | 135.3066 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Automobile Care Center | 278.95 | 278.95 | 139.71 | 258,068 | 258,068 |
| Health Club | 57.63 | 36.52 | 46.78 | 91,674 | 91,674 |
| Unrefrigerated Warehouse-No Rail | 9.81 | 9.81 | 9.81 | 28,651 | 28,651 |
| Total | 346.39 | 325.28 | 196.30 | 378,393 | 378,393 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | 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 |
| Automobile Care Center | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| Health Club | 9.50 | 7.30 | 7.30 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Unrefrigerated Warehouse-No | 9.50 | 7.30 | 7.30 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Automobile Care Center | 0.551902 | 0.058132 | 0.189202 | 0.121798 | 0.023507 | 0.005520 | 0.010395 | 0.007494 | 0.001030 | 0.000592 | 0.026623 | 0.000817 | 0.002988 |
| Health Club | 0.551902 | 0.058132 | 0.189202 | 0.121798 | 0.023507 | 0.005520 | 0.010395 | 0.007494 | 0.001030 | 0.000592 | 0.026623 | 0.000817 | 0.002988 |
| Unrefrigerated Warehouse-No Rail | 0.551902 | 0.058132 | 0.189202 | 0.121798 | 0.023507 | 0.005520 | 0.010395 | 0.007494 | 0.001030 | 0.000592 | 0.026623 | 0.000817 | 0.002988 |

## 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 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 | 0.0000 |
| NaturalGas Mitigated | 2.0100e-003 | 0.0183 | 0.0154 | 1.1000e-004 | | 1.3900e-003 | 1.3900e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 19.9125 | 19.9125 | 3.8000e-004 | 3.7000e-004 | 20.0308 |
| NaturalGas Unmitigated | 2.0100e-003 | 0.0183 | 0.0154 | 1.1000e-004 | | 1.3900e-003 | 1.3900e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 19.9125 | 19.9125 | 3.8000e-004 | 3.7000e-004 | 20.0308 |

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Automobile Care Center | 307929 | 1.6600e-003 | 0.0151 | 0.0127 | 9.0000e-005 | | 1.1500e-003 | 1.1500e-003 | | 1.1500e-003 | 1.1500e-003 | 0.0000 | 16.4323 | 16.4323 | 3.1000e-004 | 3.0000e-004 | 16.5299 |
| Health Club | 45815 | 2.5000e-004 | 2.2500e-003 | 1.8900e-003 | 1.0000e-005 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 2.4449 | 2.4449 | 5.0000e-005 | 4.0000e-005 | 2.4594 |
| Unrefrigerated Warehouse-No Rail | 19401.6 | 1.0000e-004 | 9.5000e-004 | 8.0000e-004 | 1.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 1.0353 | 1.0353 | 2.0000e-005 | 2.0000e-005 | 1.0415 |
| **Total** | | **2.0100e-003** | **0.0183** | **0.0154** | **1.1000e-004** | | **1.3900e-003** | **1.3900e-003** | | **1.3900e-003** | **1.3900e-003** | **0.0000** | **19.9125** | **19.9125** | **3.8000e-004** | **3.6000e-004** | **20.0308** |

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Automobile Care Center | 307929 | 1.6600e-003 | 0.0151 | 0.0127 | 9.0000e-005 | | 1.1500e-003 | 1.1500e-003 | | 1.1500e-003 | 1.1500e-003 | 0.0000 | 16.4323 | 16.4323 | 3.1000e-004 | 3.0000e-004 | 16.5299 |
| Health Club | 45815 | 2.5000e-004 | 2.2500e-003 | 1.8900e-003 | 1.0000e-005 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 2.4449 | 2.4449 | 5.0000e-005 | 4.0000e-005 | 2.4594 |
| Unrefrigerated Warehouse-No Rail | 19401.6 | 1.0000e-004 | 9.5000e-004 | 8.0000e-004 | 1.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 1.0353 | 1.0353 | 2.0000e-005 | 2.0000e-005 | 1.0415 |
| **Total** | | **2.0100e-003** | **0.0183** | **0.0154** | **1.1000e-004** | | **1.3900e-003** | **1.3900e-003** | | **1.3900e-003** | **1.3900e-003** | **0.0000** | **19.9125** | **19.9125** | **3.8000e-004** | **3.6000e-004** | **20.0308** |

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Automobile Care Center | 95272.2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 14175 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 19740 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

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

## 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Automobile Care Center | 95272.2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 14175 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 19740 | 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

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0848 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| Unmitigated | 0.0848 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |

## 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 | 9.9900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0748 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.0000e-005 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| **Total** | **0.0848** | **0.0000** | **1.8000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **3.4000e-004** | **3.4000e-004** | **0.0000** | **0.0000** | **3.6000e-004** |

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 9.9900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0748 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.0000e-005 | 0.0000 | 1.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3.4000e-004 | 3.4000e-004 | 0.0000 | 0.0000 | 3.6000e-004 |
| **Total** | **0.0848** | **0.0000** | **1.8000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **3.4000e-004** | **3.4000e-004** | **0.0000** | **0.0000** | **3.6000e-004** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, 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 | 0.8895 | 3.0600e-003 | 1.9300e-003 | 1.5425 |
| Unmitigated | 0.8895 | 3.0600e-003 | 1.9300e-003 | 1.5425 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Automobile Care Center | 1.10639 / 0.678112 | 0.3914 | 1.3500e-003 | 8.5000e-004 | 0.6788 |
| Health Club | 0.103501 / 0.0634358 | 0.0366 | 1.3000e-004 | 8.0000e-005 | 0.0635 |
| Unrefrigerated Warehouse-No Rail | 1.30425 / 0 | 0.4615 | 1.5900e-003 | 1.0000e-003 | 0.8002 |
| **Total** | | **0.8895** | **3.0700e-003** | **1.9300e-003** | **1.5425** |

## 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Automobile Care Center | 1.10639 / 0.678112 | 0.3914 | 1.3500e-003 | 8.5000e-004 | 0.6788 |
| Health Club | 0.103501 / 0.0634358 | 0.0366 | 1.3000e-004 | 8.0000e-005 | 0.0635 |
| Unrefrigerated Warehouse-No Rail | 1.30425 / 0 | 0.4615 | 1.5900e-003 | 1.0000e-003 | 0.8002 |
| **Total** | | **0.8895** | **3.0700e-003** | **1.9300e-003** | **1.5425** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 12.2180 | 0.7221 | 0.0000 | 30.2696 |
| Unmitigated | 12.2180 | 0.7221 | 0.0000 | 30.2696 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Automobile Care Center | 44.92 | 9.1184 | 0.5389 | 0.0000 | 22.5903 |
| Health Club | 9.97 | 2.0238 | 0.1196 | 0.0000 | 5.0139 |
| Unrefrigerated Warehouse-No Rail | 5.3 | 1.0759 | 0.0636 | 0.0000 | 2.6654 |
| **Total** | | **12.2180** | **0.7221** | **0.0000** | **30.2697** |

Existing to be Removed Alt 3 Operational - Bay Area AQMD Air District, Annual

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

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Automobile Care Center | 44.92 | 9.1184 | 0.5389 | 0.0000 | 22.5903 |
| Health Club | 9.97 | 2.0238 | 0.1196 | 0.0000 | 5.0139 |
| Unrefrigerated Warehouse-No Rail | 5.3 | 1.0759 | 0.0636 | 0.0000 | 2.6654 |
| **Total** | | **12.2180** | **0.7221** | **0.0000** | **30.2697** |

## 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**

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

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

## 11.0 Vegetation

## 200 Portage Condominium Project Alternative 2- HVAC noise

### Combined Noise Level (dBA Leq) from 293 HVAC units

# of units 293

| | dB Value | Sound Pressure | | |
|---|---|---|---|---|
| HVAC unit | 21.1 | 3.77E+04 | Sum = | 45.8 without shielding effects |

Source: Carrier 3-ton 38HDR air conditioner: Product Data

**Assumptions:**
1) Typical HVAC unit for large multi-family or commercial project: Carrier 3-ton 38HDR air conditioner
2) 1 HVAC per dwelling unit based on applicant provided information
3) 293 dwelling units
4) Approx. 293 3-ton HVAC units needed for project building
5) Center of site is 310 feet from nearest offsite noise-sensitive receptor
6) Sound power level = 72 dB, equivalent to sound pressure level of 54 dBA at 7 feet, without shielding
7) All HVAC units operate continuously, day and night