

Appendix A

CalEEMod Modeling Results

Voices Charter School - Bay Area AQMD Air District, Annual

Voices Charter School
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------|-------|----------|-------------|--------------------|------------|
| Elementary School | 35.15 | 1000sqft | 1.47 | 35,151.00 | 0 |
| Parking Lot | 23.89 | 1000sqft | 0.55 | 23,886.00 | 0 |

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 64
 Climate Zone 4 Operational Year 2021

Utility Company Pacific Gas & Electric Company

CO2 Intensity (lb/MW/hr) 281.31 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

- Land Use - Applicant provided
- Construction Phase - Applicant provided
- Grading - Applicant provided
- Vehicle Trips - Per Hexagon traffic report

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| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------|---------------|-----------|
| tblConstructionPhase | NumDays | 10.00 | 220.00 |
| tblGrading | AcresOfGrading | 3.00 | 2.02 |
| tblGrading | AcresOfGrading | 4.50 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 50.00 |
| tblLandUse | LandUseSquareFeet | 35,150.00 | 35,151.00 |
| tblLandUse | LandUseSquareFeet | 23,890.00 | 23,886.00 |
| tblLandUse | LotAcreage | 0.81 | 1.47 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 281.31 |
| tblVehicleTrips | WD_TR | 15.43 | 27.37 |

2.0 Emissions Summary

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| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1 | 1-1-2020 | 3-31-2020 | 0.7196 | 0.7196 |
| 2 | 4-1-2020 | 6-30-2020 | 0.8029 | 0.8029 |
| 3 | 7-1-2020 | 9-30-2020 | 0.8117 | 0.8117 |
| | | Highest | 0.8117 | 0.8117 |

**2.2 Overall Operational
Unmitigated Operational**

| Category | tons/yr | | | | | | | | | | | MT/yr | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|--------------------|-----------------|-------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Area | 0.1577 | 0.0000 | 5.4000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0500e-003 | 1.0500e-003 | 0.0000 | 0.0000 | 1.1300e-003 |
| Energy | 3.5000e-003 | 0.0318 | 0.0267 | 1.9000e-004 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 0.0000 | 59.8320 | 59.8320 | 3.2700e-003 | 1.1700e-003 | 60.2630 |
| Mobile | 0.1806 | 0.8650 | 2.0033 | 6.7400e-003 | 0.5640 | 0.5703 | 0.1514 | 5.9000e-003 | 0.1573 | 0.0000 | 0.0000 | 617.8422 | 617.8422 | 0.0238 | 0.0000 | 618.4367 |
| Waste | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 9.2767 | 0.0000 | 9.2767 | 0.5482 | 0.0000 | 22.9826 |
| Water | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.3234 | 1.8742 | 2.1976 | 0.0334 | 8.2000e-004 | 3.2763 |
| Total | 0.3418 | 0.8968 | 2.0305 | 6.9300e-003 | 0.5640 | 0.5727 | 0.1514 | 8.3100e-003 | 0.1597 | 9.6001 | 679.5494 | 689.1494 | 0.6087 | 1.9900e-003 | 704.9617 | |

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2.2 Overall Operational

Mitigated Operational

| Category | tons/yr | | | | | | | | | | | MT/yr | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|--------------------|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Area | 0.1577 | 0.0000 | 5.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0500e-003 | 0.0000 | 0.0000 | 0.0000 | 1.1300e-003 |
| Energy | 3.5000e-003 | 0.0318 | 0.0267 | 1.9000e-004 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 0.0000 | 59.8320 | 59.8320 | 3.2700e-003 | 1.1700e-003 | 60.2630 |
| Mobile | 0.1806 | 0.8650 | 2.0033 | 6.7400e-003 | 0.5640 | 6.3000e-003 | 0.5703 | 0.1514 | 5.9000e-003 | 0.1573 | 0.0000 | 617.8422 | 617.8422 | 0.0238 | 0.0000 | 618.4367 |
| Waste | | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 9.2767 | 0.0000 | 9.2767 | 0.5482 | 0.0000 | 22.9826 |
| Water | | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.3234 | 1.8742 | 2.1976 | 0.0334 | 8.2000e-004 | 3.2783 |
| Total | 0.3418 | 0.8968 | 2.0305 | 6.9300e-003 | 0.5640 | 8.7100e-003 | 0.5727 | 0.1514 | 8.3100e-003 | 0.1597 | 9.6001 | 679.5494 | 689.1494 | 0.6087 | 1.9900e-003 | 704.9617 |

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

3.0 Construction Detail

Construction Phase

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| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2020 | 1/3/2020 | 5 | 3 | |
| 2 | Grading | Grading | 1/4/2020 | 1/13/2020 | 5 | 6 | |
| 3 | Building Construction | Building Construction | 1/28/2020 | 11/30/2020 | 5 | 220 | |
| 4 | Paving | Paving | 1/14/2020 | 1/27/2020 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/11/2020 | 12/14/2020 | 5 | 220 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.02

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 52,727; Non-Residential Outdoor: 17,576; Striped Parking Area: 1,433 (Architectural Coating – sqft)

OffRoad Equipment

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| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 6.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 25.00 | 10.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 5.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

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3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 |
| Off-Road | 2.4800e-003 | 0.0299 | 0.0169 | 4.0000e-005 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 1.0700e-003 | 1.0700e-003 | 1.0700e-003 | 0.0000 | 3.2290 | 3.2290 | 1.0400e-003 | 0.0000 | 3.2551 |
| Total | 2.4800e-003 | 0.0299 | 0.0169 | 4.0000e-005 | 0.0000 | 1.1700e-003 | 1.1700e-003 | 1.0700e-003 | 1.0700e-003 | 1.0700e-003 | 0.0000 | 3.2290 | 3.2290 | 1.0400e-003 | 0.0000 | 3.2551 |

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3.2 Site Preparation - 2020
Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 | 4.0000e-005 | 3.0000e-005 | 2.9000e-004 | 0.0000 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0831 | 0.0831 | 0.0000 | 0.0000 | 0.0831 |
| Total | 4.0000e-005 | 3.0000e-005 | 2.9000e-004 | 0.0000 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0831 | 0.0831 | 0.0000 | 0.0000 | 0.0831 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 |
| Off-Road | 2.4800e-003 | 0.0299 | 0.0169 | 4.0000e-005 | 1.1700e-003 | 1.1700e-003 | 1.1700e-003 | 1.0700e-003 | 1.0700e-003 | 1.0700e-003 | 0.0000 | 3.2290 | 3.2290 | 1.0400e-003 | 0.0000 | 3.2551 |
| Total | 2.4800e-003 | 0.0299 | 0.0169 | 4.0000e-005 | 0.0000 | 1.1700e-003 | 1.1700e-003 | 1.0700e-003 | 1.0700e-003 | 1.0700e-003 | 0.0000 | 3.2290 | 3.2290 | 1.0400e-003 | 0.0000 | 3.2551 |

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3.2 Site Preparation - 2020
Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 | 4.0000e-005 | 3.0000e-005 | 2.9000e-004 | 0.0000 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0831 | 0.0831 | 0.0000 | 0.0000 | 0.0831 |
| Total | 4.0000e-005 | 3.0000e-005 | 2.9000e-004 | 0.0000 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0831 | 0.0831 | 0.0000 | 0.0000 | 0.0831 |

3.3 Grading - 2020
Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Fugitive Dust | | | | | 0.0191 | 0.0000 | 0.0191 | 0.0101 | 0.0000 | 0.0101 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.7700e-003 | 0.0640 | 0.0298 | 6.0000e-005 | 2.9700e-003 | 2.9700e-003 | 2.9700e-003 | 2.7300e-003 | 2.7300e-003 | 2.7300e-003 | 0.0000 | 5.4333 | 5.4333 | 1.7600e-003 | 0.0000 | 5.4773 |
| Total | 5.7700e-003 | 0.0640 | 0.0298 | 6.0000e-005 | 0.0191 | 2.9700e-003 | 0.0221 | 0.0101 | 2.7300e-003 | 0.0128 | 0.0000 | 5.4333 | 5.4333 | 1.7600e-003 | 0.0000 | 5.4773 |

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3.3 Grading - 2020
Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Hauling | 3.3000e-005 | 8.8000e-004 | 1.8000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.2299 | 0.2299 | 1.0000e-005 | 0.0000 | 0.2302 |
| 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 | 1.0000e-004 | 7.0000e-005 | 7.4000e-004 | 0.0000 | 2.4000e-004 | 0.0000 | 2.4000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.2077 | 0.2077 | 1.0000e-005 | 0.0000 | 0.2078 |
| Total | 1.3000e-004 | 9.5000e-004 | 9.2000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 7.0000e-005 | 0.0000 | 8.0000e-005 | 0.0000 | 0.4376 | 0.4376 | 2.0000e-005 | 0.0000 | 0.4380 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Fugitive Dust | | | | | 0.0191 | 0.0000 | 0.0191 | 0.0101 | 0.0000 | 0.0101 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.7700e-003 | 0.0640 | 0.0298 | 6.0000e-005 | 2.9700e-003 | 2.9700e-003 | 2.9700e-003 | 2.7300e-003 | 2.7300e-003 | 2.7300e-003 | 0.0000 | 5.4333 | 5.4333 | 1.7600e-003 | 0.0000 | 5.4773 |
| Total | 5.7700e-003 | 0.0640 | 0.0298 | 6.0000e-005 | 0.0191 | 2.9700e-003 | 0.0221 | 0.0101 | 2.7300e-003 | 0.0128 | 0.0000 | 5.4333 | 5.4333 | 1.7600e-003 | 0.0000 | 5.4773 |

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3.3 Grading - 2020

Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Hauling | 3.0000e-005 | 8.8000e-004 | 1.8000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.2299 | 0.2299 | 1.0000e-005 | 0.0000 | 0.2302 |
| 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 | 1.0000e-004 | 7.0000e-005 | 7.4000e-004 | 0.0000 | 2.4000e-004 | 0.0000 | 2.4000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.2077 | 0.2077 | 1.0000e-005 | 0.0000 | 0.2078 |
| Total | 1.3000e-004 | 9.5000e-004 | 9.2000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 7.0000e-005 | 0.0000 | 8.0000e-005 | 0.0000 | 0.4376 | 0.4376 | 2.0000e-005 | 0.0000 | 0.4380 |

3.4 Building Construction - 2020

Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Off-Road | 0.2517 | 1.9177 | 1.6387 | 2.7500e-003 | 0.1043 | 0.1043 | 0.1043 | 0.1000 | 0.1000 | 0.1000 | 0.0000 | 228.4088 | 228.4088 | 0.0464 | 0.0000 | 229.5678 |
| Total | 0.2517 | 1.9177 | 1.6387 | 2.7500e-003 | 0.1043 | 0.1043 | 0.1043 | 0.1000 | 0.1000 | 0.1000 | 0.0000 | 228.4088 | 228.4088 | 0.0464 | 0.0000 | 229.5678 |

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3.4 Building Construction - 2020
Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | | MT/yr | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 | 4.2600e-003 | 0.1269 | 0.0319 | 3.0000e-004 | 7.2100e-003 | 6.2000e-004 | 7.8300e-003 | 2.0900e-003 | 5.9000e-004 | 2.6800e-003 | 0.0000 | 28.8001 | 28.8001 | 1.4900e-003 | 0.0000 | 28.8373 |
| Worker | 9.1100e-003 | 6.5200e-003 | 0.0675 | 2.1000e-004 | 0.0217 | 1.5000e-004 | 0.0219 | 5.7800e-003 | 1.3000e-004 | 5.9200e-003 | 0.0000 | 19.0377 | 19.0377 | 4.6000e-004 | 0.0000 | 19.0492 |
| Total | 0.0134 | 0.1334 | 0.0995 | 5.1000e-004 | 0.0289 | 7.7000e-004 | 0.0297 | 7.8700e-003 | 7.2000e-004 | 8.6000e-003 | 0.0000 | 47.8379 | 47.8379 | 1.9500e-003 | 0.0000 | 47.8865 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | | MT/yr | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Off-Road | 0.2517 | 1.9177 | 1.6387 | 2.7500e-003 | | 0.1043 | 0.1043 | | 0.1000 | 0.1000 | 0.0000 | 228.4086 | 228.4086 | 0.0464 | 0.0000 | 229.5675 |
| Total | 0.2517 | 1.9177 | 1.6387 | 2.7500e-003 | | 0.1043 | 0.1043 | | 0.1000 | 0.1000 | 0.0000 | 228.4086 | 228.4086 | 0.0464 | 0.0000 | 229.5675 |

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3.4 Building Construction - 2020
Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 | 4.2600e-003 | 0.1269 | 0.0319 | 3.0000e-004 | 7.2100e-003 | 6.2000e-004 | 7.8300e-003 | 2.0900e-003 | 5.9000e-004 | 2.6800e-003 | 0.0000 | 28.8001 | 28.8001 | 1.4900e-003 | 0.0000 | 28.8373 |
| Worker | 9.1100e-003 | 6.5200e-003 | 0.0675 | 2.1000e-004 | 0.0217 | 1.5000e-004 | 0.0219 | 5.7800e-003 | 1.3000e-004 | 5.9200e-003 | 0.0000 | 19.0377 | 19.0377 | 4.6000e-004 | 0.0000 | 19.0492 |
| Total | 0.0134 | 0.1334 | 0.0995 | 5.1000e-004 | 0.0289 | 7.7000e-004 | 0.0297 | 7.8700e-003 | 7.2000e-004 | 8.6000e-003 | 0.0000 | 47.8379 | 47.8379 | 1.9500e-003 | 0.0000 | 47.8865 |

3.5 Paving - 2020
Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Off-Road | 5.7700e-003 | 0.0579 | 0.0590 | 9.0000e-005 | | 3.2800e-003 | 3.2800e-003 | 3.0300e-003 | 3.0300e-003 | 3.0300e-003 | 0.0000 | 7.7529 | 7.7529 | 2.4600e-003 | 0.0000 | 7.8143 |
| Paving | 7.2000e-004 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 6.4900e-003 | 0.0579 | 0.0590 | 9.0000e-005 | | 3.2800e-003 | 3.2800e-003 | 3.0300e-003 | 3.0300e-003 | 3.0300e-003 | 0.0000 | 7.7529 | 7.7529 | 2.4600e-003 | 0.0000 | 7.8143 |

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3.5 Paving - 2020

Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 | 2.5000e-004 | 1.8000e-004 | 1.8400e-003 | 1.0000e-005 | 5.9000e-004 | 0.0000 | 6.0000e-004 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 0.5192 | 0.5192 | 1.0000e-005 | 0.0000 | 0.5195 |
| Total | 2.5000e-004 | 1.8000e-004 | 1.8400e-003 | 1.0000e-005 | 5.9000e-004 | 0.0000 | 6.0000e-004 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 0.5192 | 0.5192 | 1.0000e-005 | 0.0000 | 0.5195 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Off-Road | 5.7700e-003 | 0.0579 | 0.0590 | 9.0000e-005 | 3.2800e-003 | 3.2800e-003 | 3.2800e-003 | 3.0300e-003 | 3.0300e-003 | 3.0300e-003 | 0.0000 | 7.7529 | 7.7529 | 2.4600e-003 | 0.0000 | 7.8143 |
| Paving | 7.2000e-004 | | | | 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 | 6.4900e-003 | 0.0579 | 0.0590 | 9.0000e-005 | 3.2800e-003 | 3.2800e-003 | 3.2800e-003 | 3.0300e-003 | 3.0300e-003 | 3.0300e-003 | 0.0000 | 7.7529 | 7.7529 | 2.4600e-003 | 0.0000 | 7.8143 |

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3.5 Paving - 2020

Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | | MT/yr | | | | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 | 2.5000e-004 | 1.8000e-004 | 1.8400e-003 | 1.0000e-005 | 5.9000e-004 | 0.0000 | 6.0000e-004 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 0.5192 | 0.5192 | 1.0000e-005 | 0.0000 | 0.5195 |
| Total | 2.5000e-004 | 1.8000e-004 | 1.8400e-003 | 1.0000e-005 | 5.9000e-004 | 0.0000 | 6.0000e-004 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 0.5192 | 0.5192 | 1.0000e-005 | 0.0000 | 0.5195 |

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | | MT/yr | | | | |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Archit. Coating | 0.1883 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0266 | 0.1852 | 0.2015 | 3.3000e-004 | | 0.0122 | 0.0122 | 0.0122 | 0.0122 | 0.0122 | 0.0000 | 28.0858 | 28.0858 | 2.1700e-003 | 0.0000 | 28.1402 |
| Total | 0.2149 | 0.1852 | 0.2015 | 3.3000e-004 | | 0.0122 | 0.0122 | 0.0122 | 0.0122 | 0.0122 | 0.0000 | 28.0858 | 28.0858 | 2.1700e-003 | 0.0000 | 28.1402 |

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3.6 Architectural Coating - 2020
Unmitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 | 1.8200e-003 | 1.3000e-003 | 0.0135 | 4.0000e-005 | 4.3500e-003 | 3.0000e-005 | 4.3800e-003 | 1.1600e-003 | 3.0000e-005 | 1.1800e-003 | 0.0000 | 3.8075 | 3.8075 | 9.0000e-005 | 0.0000 | 3.8099 |
| Total | 1.8200e-003 | 1.3000e-003 | 0.0135 | 4.0000e-005 | 4.3500e-003 | 3.0000e-005 | 4.3800e-003 | 1.1600e-003 | 3.0000e-005 | 1.1800e-003 | 0.0000 | 3.8075 | 3.8075 | 9.0000e-005 | 0.0000 | 3.8099 |

Mitigated Construction On-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Archit. Coating | 0.1883 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0266 | 0.1852 | 0.2015 | 3.3000e-004 | | 0.0122 | 0.0122 | 0.0122 | 0.0122 | 0.0122 | 0.0000 | 28.0858 | 28.0858 | 2.1700e-003 | 0.0000 | 28.1401 |
| Total | 0.2149 | 0.1852 | 0.2015 | 3.3000e-004 | | 0.0122 | 0.0122 | 0.0122 | 0.0122 | 0.0122 | 0.0000 | 28.0858 | 28.0858 | 2.1700e-003 | 0.0000 | 28.1401 |

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3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| 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 | 1.8200e-003 | 1.3000e-003 | 0.0135 | 4.0000e-005 | 4.3500e-003 | 3.0000e-005 | 4.3800e-003 | 1.1600e-003 | 3.0000e-005 | 1.1800e-003 | 0.0000 | 3.8075 | 3.8075 | 9.0000e-005 | 0.0000 | 3.8099 |
| Total | 1.8200e-003 | 1.3000e-003 | 0.0135 | 4.0000e-005 | 4.3500e-003 | 3.0000e-005 | 4.3800e-003 | 1.1600e-003 | 3.0000e-005 | 1.1800e-003 | 0.0000 | 3.8075 | 3.8075 | 9.0000e-005 | 0.0000 | 3.8099 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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| Category | tons/yr | | | | | | | | | | | | | MT/yr | | | | | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|--|--|------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | | | | |
| Mitigated | 0.1806 | 0.8650 | 2.0033 | 6.7400e-003 | 0.5640 | 6.3000e-003 | 0.5703 | 0.1514 | 5.9000e-003 | 0.1573 | 0.0000 | 617.8422 | 617.8422 | 0.0238 | 0.0000 | 618.4367 | | | |
| Unmitigated | 0.1806 | 0.8650 | 2.0033 | 6.7400e-003 | 0.5640 | 6.3000e-003 | 0.5703 | 0.1514 | 5.9000e-003 | 0.1573 | 0.0000 | 617.8422 | 617.8422 | 0.0238 | 0.0000 | 618.4367 | | | |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | | Mitigated | |
|-------------------|-------------------------|----------|--------|-------------|------------|-----------|--|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT | | |
| Elementary School | 962.06 | 0.00 | 0.00 | 1,515,196 | 1,515,196 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | | | |
| Total | 962.06 | 0.00 | 0.00 | 1,515,196 | 1,515,196 | | |

4.3 Trip Type Information

| Land Use | Miles | | | | | Trip % | | | | | Trip Purpose % | | | | |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------|----------------|---------|--|--|--|
| | H-W or C-W | H-S or C-C | H-O or C-C | H-W or C-W | H-S or C-C | H-O or C-C | H-W or C-W | H-S or C-C | H-O or C-C | Primary | Diverted | Pass-by | | | |
| Elementary School | 9.50 | 7.30 | 7.30 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 | 0 | 0 | 0 | | | |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Elementary School | 0.575198 | 0.040076 | 0.193827 | 0.113296 | 0.016988 | 0.005361 | 0.017552 | 0.025197 | 0.002581 | 0.002349 | 0.005904 | 0.000881 | 0.000789 |
| Parking Lot | 0.575198 | 0.040076 | 0.193827 | 0.113296 | 0.016988 | 0.005361 | 0.017552 | 0.025197 | 0.002581 | 0.002349 | 0.005904 | 0.000881 | 0.000789 |

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|------|---------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 25.2424 | 25.2424 | 2.6000e-003 | 5.4000e-004 | | 25.4679 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 25.2424 | 25.2424 | 2.6000e-003 | 5.4000e-004 | | 25.4679 |
| NaturalGas Mitigated | 3.5000e-003 | 0.0318 | 0.0267 | 1.9000e-004 | | 2.4100e-003 | 2.4100e-003 | | 2.4100e-003 | 2.4100e-003 | 0.0000 | 34.5896 | 34.5896 | 6.6000e-004 | 6.3000e-004 | | 34.7951 |
| NaturalGas Unmitigated | 3.5000e-003 | 0.0318 | 0.0267 | 1.9000e-004 | | 2.4100e-003 | 2.4100e-003 | | 2.4100e-003 | 2.4100e-003 | 0.0000 | 34.5896 | 34.5896 | 6.6000e-004 | 6.3000e-004 | | 34.7951 |

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5.2 Energy by Land Use - NaturalGas

Unmitigated

| Land Use | NaturalGas Use kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | CO2e |
|-------------------|---------------------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| | | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | |
| Elementary School | 648184 | 3.5000e-003 | 0.0318 | 0.0267 | 1.9000e-004 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 0.0000 | 34.5896 | 34.5896 | 6.6000e-004 | 6.3000e-004 | 34.7951 |
| 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 | 0.0000 | 0.0000 |
| Total | | 3.5000e-003 | 0.0318 | 0.0267 | 1.9000e-004 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 0.0000 | 34.5896 | 34.5896 | 6.6000e-004 | 6.3000e-004 | 34.7951 |

Mitigated

| Land Use | NaturalGas Use kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | CO2e |
|-------------------|---------------------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| | | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | |
| Elementary School | 648184 | 3.5000e-003 | 0.0318 | 0.0267 | 1.9000e-004 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 0.0000 | 34.5896 | 34.5896 | 6.6000e-004 | 6.3000e-004 | 34.7951 |
| 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 | 0.0000 | 0.0000 |
| Total | | 3.5000e-003 | 0.0318 | 0.0267 | 1.9000e-004 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 2.4100e-003 | 0.0000 | 34.5896 | 34.5896 | 6.6000e-004 | 6.3000e-004 | 34.7951 |

5.3 Energy by Land Use - Electricity

Unmitigated

| Land Use | Electricity Use kWh/yr | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------------------------|----------------|--------------------|--------------------|----------------|
| | | | | | |
| | | | | | |
| Elementary School | 189464 | 24.1756 | 2.4900e-003 | 5.2000e-004 | 24.3916 |
| Parking Lot | 8360.1 | 1.0668 | 1.1000e-004 | 2.0000e-005 | 1.0763 |
| Total | | 25.2424 | 2.6000e-003 | 5.4000e-004 | 25.4679 |

Mitigated

| Land Use | Electricity Use kWh/yr | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------------------------|----------------|--------------------|--------------------|----------------|
| | | | | | |
| | | | | | |
| Elementary School | 189464 | 24.1756 | 2.4900e-003 | 5.2000e-004 | 24.3916 |
| Parking Lot | 8360.1 | 1.0668 | 1.1000e-004 | 2.0000e-005 | 1.0763 |
| Total | | 25.2424 | 2.6000e-003 | 5.4000e-004 | 25.4679 |

6.0 Area Detail

6.1 Mitigation Measures Area

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| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|---------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|--------|-------------|
| | tons/yr | | | | | | | | | | | | | | | | |
| Mitigated | 0.1577 | 0.0000 | 5.4000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0500e-003 | 1.0500e-003 | 0.0000 | 0.0000 | 0.0000 | 1.1300e-003 |
| Unmitigated | 0.1577 | 0.0000 | 5.4000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0500e-003 | 1.0500e-003 | 0.0000 | 0.0000 | 0.0000 | 1.1300e-003 |
| | MT/yr | | | | | | | | | | | | | | | | |

6.2 Area by SubCategory

Unmitigated

| SubCategory | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|
| | tons/yr | | | | | | | | | | | | | | | | |
| Architectural Coating | 0.0188 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Consumer Products | 0.1388 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Landscaping | 5.0000e-005 | 0.0000 | 5.4000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0500e-003 | 1.0500e-003 | 0.0000 | 0.0000 | 0.0000 | 1.1300e-003 |
| Total | 0.1577 | 0.0000 | 5.4000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0500e-003 | 1.0500e-003 | 0.0000 | 0.0000 | 0.0000 | 1.1300e-003 |
| | MT/yr | | | | | | | | | | | | | | | | |

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6.2 Area by SubCategory

Mitigated

| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | | |
|-----------------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Architectural Coating | 0.0188 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.1388 | | | | | 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 | 5.0000e-005 | 0.0000 | 5.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0500e-003 | 1.0500e-003 | 0.0000 | 0.0000 | 0.0000 | 1.1300e-003 |
| Total | 0.1577 | 0.0000 | 5.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0500e-003 | 1.0500e-003 | 0.0000 | 0.0000 | 0.0000 | 1.1300e-003 |

7.0 Water Detail

7.1 Mitigation Measures Water

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|--------|
| Category | MT/yr | | | |
| Mitigated | 2.1976 | 0.0334 | 8.2000e-004 | 3.2783 |
| Unmitigated | 2.1976 | 0.0334 | 8.2000e-004 | 3.2783 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------|--------------------|---------------|---------------|--------------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| Elementary School | 1.019247 | 2.1976 | 0.0334 | 8.2000e-004 | 3.2783 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.1976 | 0.0334 | 8.2000e-004 | 3.2783 |

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7.2 Water by Land Use

Mitigated

| Land Use | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------|--------------------|---------------|---------------|--------------------|---------------|
| | Mgal | MT/yr | | | |
| Elementary School | 1.01924 / 2.62091 | 2.1976 | 0.0334 | 8.2000e-004 | 3.2783 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.1976 | 0.0334 | 8.2000e-004 | 3.2783 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| Category/Year | Total CO2 | CH4 | N2O | CO2e |
|---------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 9.2767 | 0.5482 | 0.0000 | 22.9826 |
| Unmitigated | 9.2767 | 0.5482 | 0.0000 | 22.9826 |

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8.2 Waste by Land Use

Unmitigated

| Land Use | Waste Disposed tons | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------------------------|---------------|---------------|---------------|----------------|
| Elementary School | 45.7 | 9.2767 | 0.5482 | 0.0000 | 22.9826 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 9.2767 | 0.5482 | 0.0000 | 22.9826 |

Mitigated

| Land Use | Waste Disposed tons | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------------------------|---------------|---------------|---------------|----------------|
| Elementary School | 45.7 | 9.2767 | 0.5482 | 0.0000 | 22.9826 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 9.2767 | 0.5482 | 0.0000 | 22.9826 |

9.0 Operational Offroad

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

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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

Voices Charter School - Bay Area AQMD Air District, Summer

Voices Charter School
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------|-------|----------|-------------|--------------------|------------|
| Elementary School | 35.15 | 1000sqft | 1.47 | 35,151.00 | 0 |
| Parking Lot | 23.89 | 1000sqft | 0.55 | 23,886.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------|-------|-------------------------|-----|----------------------------------|------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2021 |

Utility Company Pacific Gas & Electric Company

| | | | | | |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|
| CO2 Intensity (lb/MW/hr) | 281.31 | CH4 Intensity (lb/MW/hr) | 0.029 | N2O Intensity (lb/MW/hr) | 0.006 |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

- Land Use - Applicant provided
- Construction Phase - Applicant provided
- Grading - Applicant provided
- Vehicle Trips - Per Hexagon traffic report

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| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------|---------------|-----------|
| tblConstructionPhase | NumDays | 10.00 | 220.00 |
| tblGrading | AcresOfGrading | 3.00 | 2.02 |
| tblGrading | AcresOfGrading | 4.50 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 50.00 |
| tblLandUse | LandUseSquareFeet | 35,150.00 | 35,151.00 |
| tblLandUse | LandUseSquareFeet | 23,890.00 | 23,886.00 |
| tblLandUse | LotAcreage | 0.81 | 1.47 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 281.31 |
| tblVehicleTrips | WD_TR | 15.43 | 27.37 |

2.0 Emissions Summary

Voices Charter School - Bay Area AQMD Air District, Summer

2.2 Overall Operational
Unmitigated Operational

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|------------------|------------------|---------------|--------------------|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Area | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Energy | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 208.9233 | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| Mobile | 1.5920 | 6.4494 | 15.9333 | 0.0549 | 4.5070 | 0.0483 | 4.5553 | 1.2059 | 0.0453 | 1.2512 | 5.545468 | 5.545468 | 5.545468 | 0.2026 | | 5,550.532 |
| Total | 2.4756 | 6.6235 | 16.0856 | 0.0559 | 4.5070 | 0.0616 | 4.5685 | 1.2059 | 0.0585 | 1.2644 | 5,754.404 | 5,754.404 | 5,754.404 | 0.2066 | 3.8300e-003 | 5,760.710 |

Mitigated Operational

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|------------------|------------------|---------------|--------------------|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Area | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Energy | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 208.9233 | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| Mobile | 1.5920 | 6.4494 | 15.9333 | 0.0549 | 4.5070 | 0.0483 | 4.5553 | 1.2059 | 0.0453 | 1.2512 | 5.545468 | 5.545468 | 5.545468 | 0.2026 | | 5,550.532 |
| Total | 2.4756 | 6.6235 | 16.0856 | 0.0559 | 4.5070 | 0.0616 | 4.5685 | 1.2059 | 0.0585 | 1.2644 | 5,754.404 | 5,754.404 | 5,754.404 | 0.2066 | 3.8300e-003 | 5,760.710 |

Voices Charter School - Bay Area AQMD Air District, Summer

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2020 | 1/3/2020 | 5 | 3 | |
| 2 | Grading | Grading | 1/4/2020 | 1/13/2020 | 5 | 6 | |
| 3 | Building Construction | Building Construction | 1/28/2020 | 11/30/2020 | 5 | 220 | |
| 4 | Paving | Paving | 1/14/2020 | 1/27/2020 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/1/2020 | 12/14/2020 | 5 | 220 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.02

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 52,727; Non-Residential Outdoor: 17,576; Striped Parking Area: 1,433 (Architectural Coating – sqft)

OffRoad Equipment

Voices Charter School - Bay Area AQMD Air District, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 6.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 25.00 | 10.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 5.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

Voices Charter School - Bay Area AQMD Air District, Summer

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|---------------|-----|-----|-------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.6521 | 19.9196 | 11.2678 | 0.0245 | | 0.7771 | 0.7771 | | 0.7149 | 0.7149 | | 2,372.9062 | 0.7675 | | | 2,392.0924 |
| Total | 1.6521 | 19.9196 | 11.2678 | 0.0245 | 0.0000 | 0.7771 | 0.7771 | 0.0000 | 0.7149 | 0.7149 | | 2,372.9062 | 0.7675 | | | 2,392.0924 |

Voices Charter School - Bay Area AQMD Air District, Summer

3.2 Site Preparation - 2020
Unmitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|----------------|----------------|--------------------|-----|----------------|
| lb/day | | | | | | | | | | | | | | | | |
| 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 | 0.0278 | 0.0168 | 0.2146 | 6.6000e-004 | 0.0657 | 4.3000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | 65.6621 | 65.6621 | 65.6621 | 1.5800e-003 | | 65.7017 |
| Total | 0.0278 | 0.0168 | 0.2146 | 6.6000e-004 | 0.0657 | 4.3000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | 65.6621 | 65.6621 | 65.6621 | 1.5800e-003 | | 65.7017 |

Mitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------------|------------------------------|---------------|-----|------------------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.6521 | 19.9196 | 11.2678 | 0.0245 | 0.7771 | 0.7771 | 0.7771 | 0.7149 | 0.7149 | 0.7149 | 0.0000 | 2,372.906 ² | 2,372.906 ² | 0.7675 | | 2,392.092 ⁴ |
| Total | 1.6521 | 19.9196 | 11.2678 | 0.0245 | 0.0000 | 0.7771 | 0.7771 | 0.7149 | 0.7149 | 0.7149 | 0.0000 | 2,372.906² | 2,372.906² | 0.7675 | | 2,392.092⁴ |

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3.2 Site Preparation - 2020
Mitigated Construction Off-Site

| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|-----|------|----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| 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 | 0.0278 | 0.0168 | 0.2146 | 6.6000e-004 | 0.0657 | 4.3000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | 65.6621 | 65.6621 | 1.5800e-003 | 1.5800e-003 | | | 65.7017 |
| Total | 0.0278 | 0.0168 | 0.2146 | 6.6000e-004 | 0.0657 | 4.3000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | 65.6621 | 65.6621 | 1.5800e-003 | 1.5800e-003 | | | 65.7017 |

3.3 Grading - 2020
Unmitigated Construction On-Site

| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|------------------|------------------|---------------|-----|------|------------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Fugitive Dust | | | | | 6.3801 | 0.0000 | 6.3801 | 3.3489 | 0.0000 | 3.3489 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 1.9219 | 21.3418 | 9.9355 | 0.0206 | 0.9902 | 0.9902 | 0.9902 | 0.9110 | 0.9110 | 0.9110 | 1,996.406 | 1,996.406 | 1,996.406 | 0.6457 | | | 2,012.548 |
| Total | 1.9219 | 21.3418 | 9.9355 | 0.0206 | 6.3801 | 0.9902 | 7.3702 | 3.3489 | 0.9110 | 4.2599 | 1,996.406 | 1,996.406 | 1,996.406 | 0.6457 | | | 2,012.548 |

Voices Charter School - Bay Area AQMD Air District, Summer

3.3 Grading - 2020

Unmitigated Construction Off-Site

| Category | lb/day | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Hauling | 8.2500e-003 | 0.2864 | 0.0569 | 8.0000e-004 | 0.0175 | 9.4000e-004 | 0.0184 | 4.7900e-003 | 9.0000e-004 | 5.6800e-003 | | 85.0784 | 85.0784 | 4.2600e-003 | | 85.1848 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0348 | 0.0210 | 0.2683 | 8.2000e-004 | 0.0822 | 5.3000e-004 | 0.0827 | 0.0218 | 4.9000e-004 | 0.0223 | | 82.0777 | 82.0777 | 1.9800e-003 | | 82.1271 |
| Total | 0.0430 | 0.3075 | 0.3252 | 1.6200e-003 | 0.0996 | 1.4700e-003 | 0.1011 | 0.0266 | 1.3900e-003 | 0.0280 | | 167.1560 | 167.1560 | 6.2400e-003 | | 167.3119 |

Mitigated Construction On-Site

| Category | lb/day | | | | | | | | | | | | | | | |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Fugitive Dust | | | | | 6.3801 | 0.0000 | 6.3801 | 3.3489 | 0.0000 | 3.3489 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9219 | 21.3418 | 9.9355 | 0.0206 | | 0.9902 | 0.9902 | 0.9110 | 0.0000 | 0.9110 | 0.0000 | 1,996.4061 | 1,996.4061 | 0.6457 | | 2,012.5480 |
| Total | 1.9219 | 21.3418 | 9.9355 | 0.0206 | 6.3801 | 0.9902 | 7.3702 | 3.3489 | 0.9110 | 4.2599 | 0.0000 | 1,996.4061 | 1,996.4061 | 0.6457 | | 2,012.5480 |

Voices Charter School - Bay Area AQMD Air District, Summer

3.3 Grading - 2020

Mitigated Construction Off-Site

| Category | lb/day | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Hauling | 8.2500e-003 | 0.2864 | 0.0569 | 8.0000e-004 | 0.0175 | 9.4000e-004 | 0.0184 | 4.7900e-003 | 9.0000e-004 | 5.6800e-003 | | 85.0784 | 85.0784 | 4.2600e-003 | | 85.1848 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0348 | 0.0210 | 0.2683 | 8.2000e-004 | 0.0822 | 5.3000e-004 | 0.0827 | 0.0218 | 4.9000e-004 | 0.0223 | | 82.0777 | 82.0777 | 1.9800e-003 | | 82.1271 |
| Total | 0.0430 | 0.3075 | 0.3252 | 1.6200e-003 | 0.0996 | 1.4700e-003 | 0.1011 | 0.0266 | 1.3900e-003 | 0.0280 | | 167.1560 | 167.1560 | 6.2400e-003 | | 167.3119 |

3.4 Building Construction - 2020

Unmitigated Construction On-Site

| Category | lb/day | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Off-Road | 2.2879 | 17.4336 | 14.8972 | 0.0250 | | 0.9482 | 0.9482 | | 0.9089 | 0.9089 | | 2,288.8877 | 2,288.8877 | 0.4646 | | 2,300.5014 |
| Total | 2.2879 | 17.4336 | 14.8972 | 0.0250 | | 0.9482 | 0.9482 | | 0.9089 | 0.9089 | | 2,288.8877 | 2,288.8877 | 0.4646 | | 2,300.5014 |

Voices Charter School - Bay Area AQMD Air District, Summer

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

| lb/day | | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|-----------------|-----------------|-----------------|---------------|-----|------|-----------------|
| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| 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 | 0.0379 | 1.1396 | 0.2718 | 2.7500e-003 | 0.0677 | 5.5900e-003 | 0.0733 | 0.0195 | 5.3400e-003 | 0.0248 | 291.7081 | 291.7081 | 291.7081 | 0.0144 | | | 292.0672 |
| Worker | 0.0869 | 0.0526 | 0.6708 | 2.0600e-003 | 0.2054 | 1.3300e-003 | 0.2067 | 0.0545 | 1.2300e-003 | 0.0557 | 205.1941 | 205.1941 | 205.1941 | 4.9400e-003 | | | 205.3178 |
| Total | 0.1248 | 1.1922 | 0.9426 | 4.8100e-003 | 0.2731 | 6.9200e-003 | 0.2800 | 0.0740 | 6.5700e-003 | 0.0805 | 496.9022 | 496.9022 | 496.9022 | 0.0193 | | | 497.3849 |

Mitigated Construction On-Site

| lb/day | | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Off-Road | 2.2879 | 17.4336 | 14.8972 | 0.0250 | | 0.9482 | 0.9482 | | 0.9089 | 0.9089 | 0.0000 | 2,288.8877 | 2,288.8877 | 0.4646 | | | 2,300.5014 |
| Total | 2.2879 | 17.4336 | 14.8972 | 0.0250 | | 0.9482 | 0.9482 | | 0.9089 | 0.9089 | 0.0000 | 2,288.8877 | 2,288.8877 | 0.4646 | | | 2,300.5014 |

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3.4 Building Construction - 2020

Mitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|------|-----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| 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 | 0.0379 | 1.1396 | 0.2718 | 2.7500e-003 | 0.0677 | 5.5900e-003 | 0.0733 | 0.0195 | 5.3400e-003 | 0.0248 | | 291.7081 | 291.7081 | 0.0144 | | | 292.0672 |
| Worker | 0.0869 | 0.0526 | 0.6708 | 2.0600e-003 | 0.2054 | 1.3300e-003 | 0.2067 | 0.0545 | 1.2300e-003 | 0.0557 | | 205.1941 | 205.1941 | 4.9400e-003 | | | 205.3178 |
| Total | 0.1248 | 1.1922 | 0.9426 | 4.8100e-003 | 0.2731 | 6.9200e-003 | 0.2800 | 0.0740 | 6.5700e-003 | 0.0805 | | 496.9022 | 496.9022 | 0.0193 | | | 497.3849 |

3.5 Paving - 2020

Unmitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|------|-------------------|
| lb/day | | | | | | | | | | | | | | | | | |
| Off-Road | 1.1547 | 11.5873 | 11.8076 | 0.0178 | | 0.6565 | 0.6565 | 0.6051 | 0.6051 | 0.6051 | | 1,709.2180 | 1,709.2180 | 0.5417 | | | 1,722.7605 |
| Paving | 0.1441 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.2988 | 11.5873 | 11.8076 | 0.0178 | | 0.6565 | 0.6565 | 0.6051 | 0.6051 | 0.6051 | | 1,709.2180 | 1,709.2180 | 0.5417 | | | 1,722.7605 |

Voices Charter School - Bay Area AQMD Air District, Summer

3.5 Paving - 2020

Unmitigated Construction Off-Site

| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|-----------------|-----------------|--------------------|--------------------|-----|------|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| 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 | 0.0521 | 0.0316 | 0.4025 | 1.2400e-003 | 0.1232 | 8.0000e-004 | 0.1240 | 0.0327 | 7.4000e-004 | 0.0334 | 123.1165 | 123.1165 | 2.9700e-003 | 2.9700e-003 | | | 123.1907 |
| Total | 0.0521 | 0.0316 | 0.4025 | 1.2400e-003 | 0.1232 | 8.0000e-004 | 0.1240 | 0.0327 | 7.4000e-004 | 0.0334 | 123.1165 | 123.1165 | 2.9700e-003 | 2.9700e-003 | | | 123.1907 |

Mitigated Construction On-Site

| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Off-Road | 1.1547 | 11.5873 | 11.8076 | 0.0178 | | 0.6565 | 0.6565 | 0.6051 | 0.6051 | 0.6051 | 0.0000 | 1,709.2180 | 1,709.2180 | 0.5417 | | | 1,722.7605 |
| Paving | 0.1441 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.2988 | 11.5873 | 11.8076 | 0.0178 | | 0.6565 | 0.6565 | 0.6051 | 0.6051 | 0.6051 | 0.0000 | 1,709.2180 | 1,709.2180 | 0.5417 | | | 1,722.7605 |

Voices Charter School - Bay Area AQMD Air District, Summer

3.5 Paving - 2020

Mitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|------|-----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| 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 | 0.0521 | 0.0316 | 0.4025 | 1.2400e-003 | 0.1232 | 8.0000e-004 | 0.1240 | 0.0327 | 7.4000e-004 | 0.0334 | | 123.1165 | 123.1165 | 2.9700e-003 | | | 123.1907 |
| Total | 0.0521 | 0.0316 | 0.4025 | 1.2400e-003 | 0.1232 | 8.0000e-004 | 0.1240 | 0.0327 | 7.4000e-004 | 0.0334 | | 123.1165 | 123.1165 | 2.9700e-003 | | | 123.1907 |

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|------|-----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| Archit. Coating | 1.7116 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | 0.1109 | | 0.1109 | | 281.4481 | 281.4481 | 0.0218 | | | 281.9928 |
| Total | 1.9538 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | | 281.4481 | 281.4481 | 0.0218 | | | 281.9928 |

Voices Charter School - Bay Area AQMD Air District, Summer

3.6 Architectural Coating - 2020
Unmitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|----------------|----------------|--------------------|--------|----------------|
| lb/day | | | | | | | | | | | | | | | | |
| 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 | 0.0174 | 0.0105 | 0.1342 | 4.1000e-004 | 0.0411 | 2.7000e-004 | 0.0413 | 0.0109 | 2.5000e-004 | 0.0111 | 41.0388 | 41.0388 | 41.0388 | 9.9000e-004 | | 41.0636 |
| Total | 0.0174 | 0.0105 | 0.1342 | 4.1000e-004 | 0.0411 | 2.7000e-004 | 0.0413 | 0.0109 | 2.5000e-004 | 0.0111 | 41.0388 | 41.0388 | 41.0388 | 9.9000e-004 | | 41.0636 |

Mitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| lb/day | | | | | | | | | | | | | | | | |
| Archit. Coating | 1.7116 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| Total | 1.9538 | 1.6838 | 1.8314 | 2.9700e-003 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |

Voices Charter School - Bay Area AQMD Air District, Summer

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|----------------|----------------|--------------------|--------|----------------|
| lb/day | | | | | | | | | | | | | | | | |
| 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 | 0.0174 | 0.0105 | 0.1342 | 4.1000e-004 | 0.0411 | 2.7000e-004 | 0.0413 | 0.0109 | 2.5000e-004 | 0.0111 | 41.0388 | 41.0388 | 41.0388 | 9.9000e-004 | | 41.0636 |
| Total | 0.0174 | 0.0105 | 0.1342 | 4.1000e-004 | 0.0411 | 2.7000e-004 | 0.0413 | 0.0109 | 2.5000e-004 | 0.0111 | 41.0388 | 41.0388 | 41.0388 | 9.9000e-004 | | 41.0636 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Voices Charter School - Bay Area AQMD Air District, Summer

| Category | lb/day | | | | | | | | | | | | | | | |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|--------|-----|-----------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Mitigated | 1.5920 | 6.4494 | 15.9333 | 0.0549 | 4.5070 | 0.0483 | 4.5553 | 1.2059 | 0.0453 | 1.2512 | 5,545,468 | 5 | 5,545,468 | 0.2026 | | 5,550,532 |
| Unmitigated | 1.5920 | 6.4494 | 15.9333 | 0.0549 | 4.5070 | 0.0483 | 4.5553 | 1.2059 | 0.0453 | 1.2512 | 5,545,468 | 5 | 5,545,468 | 0.2026 | | 5,550,532 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | | Mitigated | |
|-------------------|-------------------------|----------|--------|-------------|------------|-----------|--|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT | | |
| Elementary School | 962.06 | 0.00 | 0.00 | 1,515,196 | 1,515,196 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | | | |
| Total | 962.06 | 0.00 | 0.00 | 1,515,196 | 1,515,196 | | |

4.3 Trip Type Information

| Land Use | Miles | | | | | | Trip % | | | | | | Trip Purpose % | | | | | |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------|----------|---------|----------------|----------|---------|--|--|--|
| | H-W or C-W | H-S or C-C | H-O or C-C | H-W or C-W | H-S or C-C | H-O or C-C | H-W or C-W | H-S or C-C | H-O or C-C | Primary | Diverted | Pass-by | Primary | Diverted | Pass-by | | | |
| Elementary School | 9.50 | 7.30 | 7.30 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 | | | | | | | | | |
| 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 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Elementary School | 0.575198 | 0.040076 | 0.193827 | 0.113296 | 0.016988 | 0.005361 | 0.017552 | 0.025197 | 0.002581 | 0.002349 | 0.005904 | 0.000881 | 0.000789 |
| Parking Lot | 0.575198 | 0.040076 | 0.193827 | 0.113296 | 0.016988 | 0.005361 | 0.017552 | 0.025197 | 0.002581 | 0.002349 | 0.005904 | 0.000881 | 0.000789 |

Voices Charter School - Bay Area AQMD Air District, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| lb/day | | | | | | | | | | | | | | | | |
| NaturalGas Mitigated | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| NaturalGas Unmitigated | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |

Voices Charter School - Bay Area AQMD Air District, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

| Land Use | Natural Gas Use kBtu/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio-CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|----------------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------|-----------------|-----------------|--------------------|--------------------|-----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| Elementary School | 1775.85 | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| 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 | 0.0000 |
| Total | | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |

Mitigated

| Land Use | Natural Gas Use kBtu/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio-CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|----------------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------|-----------------|-----------------|--------------------|--------------------|-----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| Elementary School | 1775.85 | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| 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 | 0.0000 |
| Total | | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |

6.0 Area Detail

6.1 Mitigation Measures Area

Voices Charter School - Bay Area AQMD Air District, Summer

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| lb/day | | | | | | | | | | | | | | | | |
| Mitigated | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Unmitigated | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |

6.2 Area by SubCategory

Unmitigated

| SubCategory | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|-----|---------------|
| lb/day | | | | | | | | | | | | | | | | |
| Architectural Coating | 0.1032 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.7607 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.7000e-004 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Total | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |

Voices Charter School - Bay Area AQMD Air District, Summer

6.2 Area by SubCategory

Mitigated

| SubCategory | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|-----|---------------|
| | lb/day | | | | | | | | | | | | | | | |
| Architectural Coating | 0.1032 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.7607 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.7000e-004 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Total | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Voices Charter School - Bay Area AQMD Air District, Summer

| 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

Voices Charter School - Bay Area AQMD Air District, Winter

Voices Charter School
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------|-------|----------|-------------|--------------------|------------|
| Elementary School | 35.15 | 1000sqft | 1.47 | 35,151.00 | 0 |
| Parking Lot | 23.89 | 1000sqft | 0.55 | 23,886.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------|-------|-------------------------|-----|----------------------------------|------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2021 |

Utility Company Pacific Gas & Electric Company

| | | | | | |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|
| CO2 Intensity (lb/MW/hr) | 281.31 | CH4 Intensity (lb/MW/hr) | 0.029 | N2O Intensity (lb/MW/hr) | 0.006 |
|---------------------------------|--------|---------------------------------|-------|---------------------------------|-------|

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

- Land Use - Applicant provided
- Construction Phase - Applicant provided
- Grading - Applicant provided
- Vehicle Trips - Per Hexagon traffic report

Voices Charter School - Bay Area AQMD Air District, Winter

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------|---------------|-----------|
| tblConstructionPhase | NumDays | 10.00 | 220.00 |
| tblGrading | AcresOfGrading | 3.00 | 2.02 |
| tblGrading | AcresOfGrading | 4.50 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 50.00 |
| tblLandUse | LandUseSquareFeet | 35,150.00 | 35,151.00 |
| tblLandUse | LandUseSquareFeet | 23,890.00 | 23,886.00 |
| tblLandUse | LotAcreage | 0.81 | 1.47 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 281.31 |
| tblVehicleTrips | WD_TR | 15.43 | 27.37 |

2.0 Emissions Summary

Voices Charter School - Bay Area AQMD Air District, Winter

2.2 Overall Operational
Unmitigated Operational

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|------------------|------------------|---------------|--------------------|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Area | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Energy | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 208.9233 | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| Mobile | 1.3802 | 6.7755 | 16.1961 | 0.0513 | 4.5070 | 0.0487 | 4.5557 | 1.2059 | 0.0457 | 1.2516 | 5.189.382 | 5.189.382 | 5.189.382 | 0.2073 | | 5,194.564 |
| Total | 2.2638 | 6.9497 | 16.3484 | 0.0524 | 4.5070 | 0.0620 | 4.5689 | 1.2059 | 0.0589 | 1.2648 | 5.398.318 | 5.398.318 | 5.398.318 | 0.2113 | 3.8300e-003 | 5,404.743 |

Mitigated Operational

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|------------------|------------------|------------------|---------------|--------------------|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Area | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Energy | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 208.9233 | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| Mobile | 1.3802 | 6.7755 | 16.1961 | 0.0513 | 4.5070 | 0.0487 | 4.5557 | 1.2059 | 0.0457 | 1.2516 | 5.189.382 | 5.189.382 | 5.189.382 | 0.2073 | | 5,194.564 |
| Total | 2.2638 | 6.9497 | 16.3484 | 0.0524 | 4.5070 | 0.0620 | 4.5689 | 1.2059 | 0.0589 | 1.2648 | 5.398.318 | 5.398.318 | 5.398.318 | 0.2113 | 3.8300e-003 | 5,404.743 |

Voices Charter School - Bay Area AQMD Air District, Winter

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2020 | 1/3/2020 | 5 | 3 | |
| 2 | Grading | Grading | 1/4/2020 | 1/13/2020 | 5 | 6 | |
| 3 | Building Construction | Building Construction | 1/28/2020 | 11/30/2020 | 5 | 220 | |
| 4 | Paving | Paving | 1/14/2020 | 1/27/2020 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/11/2020 | 12/14/2020 | 5 | 220 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.02

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 52,727; Non-Residential Outdoor: 17,576; Striped Parking Area: 1,433 (Architectural Coating – sqft)

OffRoad Equipment

Voices Charter School - Bay Area AQMD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 6.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 25.00 | 10.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 5.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

Voices Charter School - Bay Area AQMD Air District, Winter

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|------------------------|---------------|-----|------------------------|
| | lb/day | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.6521 | 19.9196 | 11.2678 | 0.0245 | | 0.7771 | 0.7771 | | 0.7149 | 0.7149 | | | 2,372.906 2 | 0.7675 | | 2,392.092 4 |
| Total | 1.6521 | 19.9196 | 11.2678 | 0.0245 | 0.0000 | 0.7771 | 0.7771 | 0.0000 | 0.7149 | 0.7149 | | | 2,372.906 2 | 0.7675 | | 2,392.092 4 |

Voices Charter School - Bay Area AQMD Air District, Winter

3.2 Site Preparation - 2020
Unmitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|----------------|----------------|--------------------|-----|------|----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| 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 | 0.0294 | 0.0208 | 0.2016 | 6.1000e-004 | 0.0657 | 4.3000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | 60.4852 | 60.4852 | 60.4852 | 1.4800e-003 | | | 60.5222 |
| Total | 0.0294 | 0.0208 | 0.2016 | 6.1000e-004 | 0.0657 | 4.3000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | 60.4852 | 60.4852 | 60.4852 | 1.4800e-003 | | | 60.5222 |

Mitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------------|------------------------------|---------------|-----|------|------------------------------|
| lb/day | | | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 1.6521 | 19.9196 | 11.2678 | 0.0245 | 0.7771 | 0.7771 | 0.7771 | 0.7149 | 0.7149 | 0.7149 | 0.0000 | 2,372.906 ² | 2,372.906 ² | 0.7675 | | | 2,392.092 ⁴ |
| Total | 1.6521 | 19.9196 | 11.2678 | 0.0245 | 0.0000 | 0.7771 | 0.7771 | 0.7149 | 0.7149 | 0.7149 | 0.0000 | 2,372.906² | 2,372.906² | 0.7675 | | | 2,392.092⁴ |

Voices Charter School - Bay Area AQMD Air District, Winter

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|----------------|----------------|--------------------|-----|----------------|
| lb/day | | | | | | | | | | | | | | | | |
| 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 | 0.0294 | 0.0208 | 0.2016 | 6.1000e-004 | 0.0657 | 4.3000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | 60.4852 | 60.4852 | 60.4852 | 1.4800e-003 | | 60.5222 |
| Total | 0.0294 | 0.0208 | 0.2016 | 6.1000e-004 | 0.0657 | 4.3000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | 60.4852 | 60.4852 | 60.4852 | 1.4800e-003 | | 60.5222 |

3.3 Grading - 2020

Unmitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------|------------------|---------------|-----|------------------|
| lb/day | | | | | | | | | | | | | | | | |
| Fugitive Dust | | | | | 6.3801 | 0.0000 | 6.3801 | 3.3489 | 0.0000 | 3.3489 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9219 | 21.3418 | 9.9355 | 0.0206 | | 0.9902 | 0.9902 | 0.9110 | | 0.9110 | | 1,996.406 | 1,996.406 | 0.6457 | | 2,012.548 |
| Total | 1.9219 | 21.3418 | 9.9355 | 0.0206 | 6.3801 | 0.9902 | 7.3702 | 3.3489 | 0.9110 | 4.2599 | | 1,996.406 | 1,996.406 | 0.6457 | | 2,012.548 |

Voices Charter School - Bay Area AQMD Air District, Winter

3.3 Grading - 2020

Unmitigated Construction Off-Site

| Category | lb/day | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Hauling | 8.4800e-003 | 0.2935 | 0.0613 | 7.8000e-004 | 0.0175 | 9.5000e-004 | 0.0184 | 4.7900e-003 | 9.1000e-004 | 5.7000e-003 | | 83.6494 | 83.6494 | 4.4700e-003 | | 83.7611 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0368 | 0.0260 | 0.2520 | 7.6000e-004 | 0.0822 | 5.3000e-004 | 0.0827 | 0.0218 | 4.9000e-004 | 0.0223 | | 75.6065 | 75.6065 | 1.8500e-003 | | 75.6528 |
| Total | 0.0452 | 0.3195 | 0.3133 | 1.5400e-003 | 0.0996 | 1.4800e-003 | 0.1011 | 0.0266 | 1.4000e-003 | 0.0280 | | 159.2559 | 159.2559 | 6.3200e-003 | | 159.4139 |

Mitigated Construction On-Site

| Category | lb/day | | | | | | | | | | | | | | | |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------|------------------|---------------|-----|------------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Fugitive Dust | | | | | 6.3801 | 0.0000 | 6.3801 | 3.3489 | 0.0000 | 3.3489 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.9219 | 21.3418 | 9.9355 | 0.0206 | | 0.9902 | 0.9902 | 0.9110 | | 0.9110 | 0.0000 | 1,996.406 | 1,996.406 | 0.6457 | | 2,012.548 |
| Total | 1.9219 | 21.3418 | 9.9355 | 0.0206 | 6.3801 | 0.9902 | 7.3702 | 3.3489 | 0.9110 | 4.2599 | 0.0000 | 1,996.406 | 1,996.406 | 0.6457 | | 2,012.548 |

Voices Charter School - Bay Area AQMD Air District, Winter

3.3 Grading - 2020

Mitigated Construction Off-Site

| Category | lb/day | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|------|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Hauling | 8.4800e-003 | 0.2935 | 0.0613 | 7.8000e-004 | 0.0175 | 9.5000e-004 | 0.0184 | 4.7900e-003 | 9.1000e-004 | 5.7000e-003 | | 83.6494 | 83.6494 | 4.4700e-003 | | | 83.7611 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Worker | 0.0368 | 0.0260 | 0.2520 | 7.6000e-004 | 0.0822 | 5.3000e-004 | 0.0827 | 0.0218 | 4.9000e-004 | 0.0223 | | 75.6065 | 75.6065 | 1.8500e-003 | | | 75.6528 |
| Total | 0.0452 | 0.3195 | 0.3133 | 1.5400e-003 | 0.0996 | 1.4800e-003 | 0.1011 | 0.0266 | 1.4000e-003 | 0.0280 | | 159.2559 | 159.2559 | 6.3200e-003 | | | 159.4139 |

3.4 Building Construction - 2020

Unmitigated Construction On-Site

| Category | lb/day | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|------|-------------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Off-Road | 2.2879 | 17.4336 | 14.8972 | 0.0250 | | 0.9482 | 0.9482 | | 0.9089 | 0.9089 | | 2,288.8877 | 2,288.8877 | 0.4646 | | | 2,300.5014 |
| Total | 2.2879 | 17.4336 | 14.8972 | 0.0250 | | 0.9482 | 0.9482 | | 0.9089 | 0.9089 | | 2,288.8877 | 2,288.8877 | 0.4646 | | | 2,300.5014 |

Voices Charter School - Bay Area AQMD Air District, Winter

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

| lb/day | | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|-----------------|-----------------|-----------------|---------------|-----|------|-----------------|
| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| 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 | 0.0399 | 1.1524 | 0.3110 | 2.6900e-003 | 0.0677 | 5.6800e-003 | 0.0734 | 0.0195 | 5.4300e-003 | 0.0249 | 284.3272 | 284.3272 | 284.3272 | 0.0155 | | | 284.7157 |
| Worker | 0.0919 | 0.0650 | 0.6300 | 1.9000e-003 | 0.2054 | 1.3300e-003 | 0.2067 | 0.0545 | 1.2300e-003 | 0.0557 | 189.0164 | 189.0164 | 189.0164 | 4.6200e-003 | | | 189.1319 |
| Total | 0.1318 | 1.2174 | 0.9410 | 4.5900e-003 | 0.2731 | 7.0100e-003 | 0.2801 | 0.0740 | 6.6600e-003 | 0.0806 | 473.3436 | 473.3436 | 473.3436 | 0.0202 | | | 473.8476 |

Mitigated Construction On-Site

| lb/day | | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Off-Road | 2.2879 | 17.4336 | 14.8972 | 0.0250 | | 0.9482 | 0.9482 | | 0.9089 | 0.9089 | 0.0000 | 2,288.8877 | 2,288.8877 | 0.4646 | | | 2,300.5014 |
| Total | 2.2879 | 17.4336 | 14.8972 | 0.0250 | | 0.9482 | 0.9482 | | 0.9089 | 0.9089 | 0.0000 | 2,288.8877 | 2,288.8877 | 0.4646 | | | 2,300.5014 |

Voices Charter School - Bay Area AQMD Air District, Winter

3.4 Building Construction - 2020

Mitigated Construction Off-Site

| Category | lb/day | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|-----------------|-----------------|-----------------|---------------|-----|------|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| 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 | 0.0399 | 1.1524 | 0.3110 | 2.6900e-003 | 0.0677 | 5.6800e-003 | 0.0734 | 0.0195 | 5.4300e-003 | 0.0249 | 284.3272 | 284.3272 | 284.3272 | 0.0155 | | | 284.7157 |
| Worker | 0.0919 | 0.0650 | 0.6300 | 1.9000e-003 | 0.2054 | 1.3300e-003 | 0.2067 | 0.0545 | 1.2300e-003 | 0.0557 | 189.0164 | 189.0164 | 189.0164 | 4.6200e-003 | | | 189.1319 |
| Total | 0.1318 | 1.2174 | 0.9410 | 4.5900e-003 | 0.2731 | 7.0100e-003 | 0.2801 | 0.0740 | 6.6600e-003 | 0.0806 | 473.3436 | 473.3436 | 473.3436 | 0.0202 | | | 473.8476 |

3.5 Paving - 2020

Unmitigated Construction On-Site

| Category | lb/day | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|-----|------|-------------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Off-Road | 1.1547 | 11.5873 | 11.8076 | 0.0178 | | 0.6565 | 0.6565 | 0.6051 | 0.6051 | 0.6051 | 1,709.2180 | 1,709.2180 | 1,709.2180 | 0.5417 | | | 1,722.7605 |
| Paving | 0.1441 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Total | 1.2988 | 11.5873 | 11.8076 | 0.0178 | | 0.6565 | 0.6565 | 0.6051 | 0.6051 | 0.6051 | 1,709.2180 | 1,709.2180 | 1,709.2180 | 0.5417 | | | 1,722.7605 |

Voices Charter School - Bay Area AQMD Air District, Winter

3.5 Paving - 2020

Unmitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| 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 | 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 | 0.0000 |
| Worker | 0.0552 | 0.0390 | 0.3780 | 1.1400e-003 | 0.1232 | 8.0000e-004 | 0.1240 | 0.0327 | 7.4000e-004 | 0.0334 | 113.4098 | 113.4098 | 113.4098 | 2.7700e-003 | 113.4792 | 113.4792 | 113.4792 |
| Total | 0.0552 | 0.0390 | 0.3780 | 1.1400e-003 | 0.1232 | 8.0000e-004 | 0.1240 | 0.0327 | 7.4000e-004 | 0.0334 | 113.4098 | 113.4098 | 113.4098 | 2.7700e-003 | 113.4792 | 113.4792 | 113.4792 |

Mitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|--------|
| lb/day | | | | | | | | | | | | | | | | | |
| Off-Road | 1.1547 | 11.5873 | 11.8076 | 0.0178 | | 0.6565 | 0.6565 | 0.6051 | 0.6051 | 0.6051 | 0.0000 | 1,709.2180 | 1,709.2180 | 0.5417 | | 1,722.7605 | |
| Paving | 0.1441 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 | 0.0000 |
| Total | 1.2988 | 11.5873 | 11.8076 | 0.0178 | | 0.6565 | 0.6565 | 0.6051 | 0.6051 | 0.6051 | 0.0000 | 1,709.2180 | 1,709.2180 | 0.5417 | | 1,722.7605 | |

Voices Charter School - Bay Area AQMD Air District, Winter

3.5 Paving - 2020

Mitigated Construction Off-Site

| Category | lb/day | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| 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 | 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 | 0.0000 |
| Worker | 0.0552 | 0.0390 | 0.3780 | 1.1400e-003 | 0.1232 | 8.0000e-004 | 0.1240 | 0.0327 | 7.4000e-004 | 0.0334 | 113.4098 | 113.4098 | 113.4098 | 2.7700e-003 | 113.4792 | 113.4792 | 113.4792 |
| Total | 0.0552 | 0.0390 | 0.3780 | 1.1400e-003 | 0.1232 | 8.0000e-004 | 0.1240 | 0.0327 | 7.4000e-004 | 0.0334 | 113.4098 | 113.4098 | 113.4098 | 2.7700e-003 | 113.4792 | 113.4792 | 113.4792 |

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

| Category | lb/day | | | | | | | | | | | | | | | | |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|-----|-----------------|-----------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| Archit. Coating | 1.7116 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 281.4481 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 | 281.9928 |
| Total | 1.9538 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 281.4481 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 | 281.9928 |

Voices Charter School - Bay Area AQMD Air District, Winter

**3.6 Architectural Coating - 2020
Unmitigated Construction Off-Site**

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|----------------|----------------|--------------------|-----|------|----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| 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 | 0.0184 | 0.0130 | 0.1260 | 3.8000e-004 | 0.0411 | 2.7000e-004 | 0.0413 | 0.0109 | 2.5000e-004 | 0.0111 | 37.8033 | 37.8033 | 37.8033 | 9.2000e-004 | | | 37.8264 |
| Total | 0.0184 | 0.0130 | 0.1260 | 3.8000e-004 | 0.0411 | 2.7000e-004 | 0.0413 | 0.0109 | 2.5000e-004 | 0.0111 | 37.8033 | 37.8033 | 37.8033 | 9.2000e-004 | | | 37.8264 |

Mitigated Construction On-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|------|-----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| Archit. Coating | 1.7116 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | | 281.9928 |
| Total | 1.9538 | 1.6838 | 1.8314 | 2.9700e-003 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | | 281.9928 |

Voices Charter School - Bay Area AQMD Air District, Winter

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|----------------|----------------|--------------------|--------|----------------|
| lb/day | | | | | | | | | | | | | | | | |
| 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 | 0.0184 | 0.0130 | 0.1260 | 3.8000e-004 | 0.0411 | 2.7000e-004 | 0.0413 | 0.0109 | 2.5000e-004 | 0.0111 | 37.8033 | 37.8033 | 37.8033 | 9.2000e-004 | | 37.8264 |
| Total | 0.0184 | 0.0130 | 0.1260 | 3.8000e-004 | 0.0411 | 2.7000e-004 | 0.0413 | 0.0109 | 2.5000e-004 | 0.0111 | 37.8033 | 37.8033 | 37.8033 | 9.2000e-004 | | 37.8264 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Voices Charter School - Bay Area AQMD Air District, Winter

| Category | lb/day | | | | | | | | | | | | | | | |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-----------|--------|-----|------------|
| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
| Mitigated | 1.3802 | 6.7755 | 16.1961 | 0.0513 | 4.5070 | 0.0487 | 4.5557 | 1.2059 | 0.0457 | 1.2516 | 5,189.3826 | 5,189.3826 | 0.2073 | 0.2073 | | 5,194.5649 |
| Unmitigated | 1.3802 | 6.7755 | 16.1961 | 0.0513 | 4.5070 | 0.0487 | 4.5557 | 1.2059 | 0.0457 | 1.2516 | 5,189.3826 | 5,189.3826 | 0.2073 | 0.2073 | | 5,194.5649 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | | Mitigated | |
|-------------------|-------------------------|----------|--------|-------------|------------|-----------|--|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT | | |
| Elementary School | 962.06 | 0.00 | 0.00 | 1,515,196 | 1,515,196 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | | | |
| Total | 962.06 | 0.00 | 0.00 | 1,515,196 | 1,515,196 | | |

4.3 Trip Type Information

| Land Use | Miles | | | | | | Trip % | | | | | | Trip Purpose % | | | | | |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------|----------|---------|----------------|-----|------|----|--|--|
| | H-W or C-W | H-S or C-C | H-O or C-C | H-W or C-W | H-S or C-C | H-O or C-C | H-W or C-W | H-S or C-C | H-O or C-C | Primary | Diverted | Pass-by | UBUS | MCY | SBUS | MH | | |
| Elementary School | 9.50 | 7.30 | 7.30 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 | | | | | | | | | |
| 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 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Elementary School | 0.575198 | 0.040076 | 0.193827 | 0.113296 | 0.016988 | 0.005361 | 0.017552 | 0.025197 | 0.002581 | 0.002349 | 0.005904 | 0.000881 | 0.000789 |
| Parking Lot | 0.575198 | 0.040076 | 0.193827 | 0.113296 | 0.016988 | 0.005361 | 0.017552 | 0.025197 | 0.002581 | 0.002349 | 0.005904 | 0.000881 | 0.000789 |

Voices Charter School - Bay Area AQMD Air District, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| lb/day | | | | | | | | | | | | | | | | |
| NaturalGas Mitigated | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| NaturalGas Unmitigated | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |

Voices Charter School - Bay Area AQMD Air District, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

| Land Use | Natural Gas Use kBtu/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio-CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|----------------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| Elementary School | 1775.85 | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 208.9233 | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| 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 | 0.0000 | 0.0000 |
| Total | | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 208.9233 | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |

Mitigated

| Land Use | Natural Gas Use kBtu/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio-CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|----------------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| lb/day | | | | | | | | | | | | | | | | | |
| Elementary School | 1775.85 | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 208.9233 | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |
| 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 | 0.0000 | 0.0000 |
| Total | | 0.0192 | 0.1741 | 0.1463 | 1.0400e-003 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 0.0132 | 208.9233 | 208.9233 | 208.9233 | 4.0000e-003 | 3.8300e-003 | 210.1648 |

6.0 Area Detail

6.1 Mitigation Measures Area

Voices Charter School - Bay Area AQMD Air District, Winter

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| | lb/day | | | | | | | | | | | | | | | |
| Mitigated | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Unmitigated | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |

6.2 Area by SubCategory

Unmitigated

| SubCategory | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|-----|---------------|
| | lb/day | | | | | | | | | | | | | | | |
| Architectural Coating | 0.1032 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.7607 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.7000e-004 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Total | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |

Voices Charter School - Bay Area AQMD Air District, Winter

6.2 Area by SubCategory

Mitigated

| SubCategory | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|-----|---------------|
| | lb/day | | | | | | | | | | | | | | | |
| Architectural Coating | 0.1032 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.7607 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.7000e-004 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |
| Total | 0.8644 | 6.0000e-005 | 6.0500e-003 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.0129 | 0.0129 | 0.0129 | 3.0000e-005 | | 0.0138 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Voices Charter School - Bay Area AQMD Air District, Winter

| 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

Voices Charter School
Bay Area AQMD Air District, Mitigation Report

Construction Mitigation Summary

| Phase | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|------|------|------|------|--------------|---------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Building Construction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Site Preparation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

OFFROAD Equipment Mitigation

| Equipment Type | Fuel Type | Tier | Number Mitigated | Total Number of Equipment | DPF | Oxidation Catalyst |
|---------------------------|-----------|-----------|------------------|---------------------------|-----------|--------------------|
| Air Compressors | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Cement and Mortar Mixers | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Cranes | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Forklifts | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Generator Sets | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Graders | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Pavers | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Paving Equipment | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Rollers | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Rubber Tired Dozers | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Scrapers | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Tractors/Loaders/Backhoes | Diesel | No Change | 0 | 5 | No Change | 0.00 |
| Welders | Diesel | No Change | 0 | 3 | No Change | 0.00 |

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Unmitigated tons/yr | | | | | | | | | | | | |
| Air Compressors | 2.66400E-002 | 1.85220E-001 | 2.01460E-001 | 3.30000E-004 | 1.22000E-002 | 1.22000E-002 | 0.00000E+000 | 2.80858E+001 | 2.80858E+001 | 2.17000E-003 | 0.00000E+000 | 2.81402E+001 |
| Cement and Mortar Mixers | 2.90000E-004 | 1.84000E-003 | 1.54000E-003 | 0.00000E+000 | 7.00000E-005 | 7.00000E-005 | 0.00000E+000 | 2.29140E-001 | 2.29140E-001 | 2.00000E-005 | 0.00000E+000 | 2.29730E-001 |
| Cranes | 4.98700E-002 | 5.93070E-001 | 2.32690E-001 | 6.30000E-004 | 2.44500E-002 | 2.24900E-002 | 0.00000E+000 | 5.57618E+001 | 5.57618E+001 | 1.80300E-002 | 0.00000E+000 | 5.62127E+001 |
| Forklifts | 2.77200E-002 | 2.49770E-001 | 2.27200E-001 | 2.90000E-004 | 1.86100E-002 | 1.71200E-002 | 0.00000E+000 | 2.58511E+001 | 2.58511E+001 | 8.36000E-003 | 0.00000E+000 | 2.60601E+001 |
| Generator Sets | 4.39000E-002 | 3.82650E-001 | 4.07610E-001 | 7.20000E-004 | 2.15900E-002 | 2.15900E-002 | 0.00000E+000 | 6.21728E+001 | 6.21728E+001 | 3.50000E-003 | 0.00000E+000 | 6.22603E+001 |
| Graders | 2.14000E-003 | 2.84600E-002 | 8.17000E-003 | 3.00000E-005 | 9.10000E-004 | 8.40000E-004 | 0.00000E+000 | 2.62379E+000 | 2.62379E+000 | 8.50000E-004 | 0.00000E+000 | 2.64501E+000 |
| Pavers | 1.31000E-003 | 1.40500E-002 | 1.44900E-002 | 2.00000E-005 | 6.80000E-004 | 6.30000E-004 | 0.00000E+000 | 2.06508E+000 | 2.06508E+000 | 6.70000E-004 | 0.00000E+000 | 2.08178E+000 |
| Paving Equipment | 1.04000E-003 | 1.07100E-002 | 1.26700E-002 | 2.00000E-005 | 5.40000E-004 | 4.90000E-004 | 0.00000E+000 | 1.78955E+000 | 1.78955E+000 | 5.80000E-004 | 0.00000E+000 | 1.80402E+000 |
| Rollers | 2.08000E-003 | 2.08100E-002 | 1.89300E-002 | 3.00000E-005 | 1.33000E-003 | 1.22000E-003 | 0.00000E+000 | 2.30485E+000 | 2.30485E+000 | 7.50000E-004 | 0.00000E+000 | 2.32349E+000 |
| Rubber Tired Dozers | 3.24000E-003 | 3.40000E-002 | 1.23900E-002 | 3.00000E-005 | 1.66000E-003 | 1.53000E-003 | 0.00000E+000 | 2.25166E+000 | 2.25166E+000 | 7.30000E-004 | 0.00000E+000 | 2.26986E+000 |
| Scrapers | 1.49000E-003 | 1.76300E-002 | 1.11900E-002 | 2.00000E-005 | 6.90000E-004 | 6.30000E-004 | 0.00000E+000 | 1.99628E+000 | 1.99628E+000 | 6.50000E-004 | 0.00000E+000 | 2.01242E+000 |
| Tractors/Loaders/Backhoes | 1.97100E-002 | 1.98020E-001 | 2.14430E-001 | 2.90000E-004 | 1.25200E-002 | 1.15200E-002 | 0.00000E+000 | 2.56652E+001 | 2.56652E+001 | 8.30000E-003 | 0.00000E+000 | 2.58727E+001 |
| Welders | 1.12890E-001 | 5.18540E-001 | 5.83110E-001 | 8.40000E-004 | 2.86700E-002 | 2.86700E-002 | 0.00000E+000 | 6.21128E+001 | 6.21128E+001 | 9.18000E-003 | 0.00000E+000 | 6.23423E+001 |

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Mitigated tons/yr | | | | | | | | | | | | |
| Mitigated m/yr | | | | | | | | | | | | |
| Air Compressors | 2.66400E-002 | 1.85220E-001 | 2.01460E-001 | 3.30000E-004 | 1.22000E-002 | 1.22000E-002 | 0.00000E+000 | 2.80858E+001 | 2.80858E+001 | 2.17000E-003 | 0.00000E+000 | 2.81401E+001 |
| Cement and Mortar Mixers | 2.90000E-004 | 1.84000E-003 | 1.54000E-003 | 0.00000E+000 | 7.00000E-005 | 7.00000E-005 | 0.00000E+000 | 2.29140E-001 | 2.29140E-001 | 2.00000E-005 | 0.00000E+000 | 2.29730E-001 |
| Cranes | 4.98700E-002 | 5.93070E-001 | 2.32690E-001 | 6.30000E-004 | 2.44500E-002 | 2.24900E-002 | 0.00000E+000 | 5.57617E+001 | 5.57617E+001 | 1.80300E-002 | 0.00000E+000 | 5.62126E+001 |
| Forklifts | 2.77200E-002 | 2.49770E-001 | 2.27200E-001 | 2.90000E-004 | 1.86100E-002 | 1.71200E-002 | 0.00000E+000 | 2.58511E+001 | 2.58511E+001 | 8.36000E-003 | 0.00000E+000 | 2.60601E+001 |
| Generator Sets | 4.39000E-002 | 3.82650E-001 | 4.07610E-001 | 7.20000E-004 | 2.15900E-002 | 2.15900E-002 | 0.00000E+000 | 6.21728E+001 | 6.21728E+001 | 3.50000E-003 | 0.00000E+000 | 6.22603E+001 |
| Graders | 2.14000E-003 | 2.84600E-002 | 8.17000E-003 | 3.00000E-005 | 9.10000E-004 | 8.40000E-004 | 0.00000E+000 | 2.62379E+000 | 2.62379E+000 | 8.50000E-004 | 0.00000E+000 | 2.64500E+000 |
| Pavers | 1.31000E-003 | 1.40500E-002 | 1.44900E-002 | 2.00000E-005 | 6.80000E-004 | 6.30000E-004 | 0.00000E+000 | 2.06508E+000 | 2.06508E+000 | 6.70000E-004 | 0.00000E+000 | 2.08177E+000 |
| Paving Equipment | 1.04000E-003 | 1.07100E-002 | 1.26700E-002 | 2.00000E-005 | 5.40000E-004 | 4.90000E-004 | 0.00000E+000 | 1.78955E+000 | 1.78955E+000 | 5.80000E-004 | 0.00000E+000 | 1.80402E+000 |
| Rollers | 2.08000E-003 | 2.08100E-002 | 1.89300E-002 | 3.00000E-005 | 1.33000E-003 | 1.22000E-003 | 0.00000E+000 | 2.30485E+000 | 2.30485E+000 | 7.50000E-004 | 0.00000E+000 | 2.32349E+000 |
| Rubber Tired Dozers | 3.24000E-003 | 3.40000E-002 | 1.23900E-002 | 3.00000E-005 | 1.66000E-003 | 1.53000E-003 | 0.00000E+000 | 2.25165E+000 | 2.25165E+000 | 7.30000E-004 | 0.00000E+000 | 2.26986E+000 |
| Scrapers | 1.49000E-003 | 1.76300E-002 | 1.11900E-002 | 2.00000E-005 | 6.90000E-004 | 6.30000E-004 | 0.00000E+000 | 1.99628E+000 | 1.99628E+000 | 6.50000E-004 | 0.00000E+000 | 2.01242E+000 |
| Tractors/Loaders/Balckhoes | 1.97100E-002 | 1.98020E-001 | 2.14430E-001 | 2.90000E-004 | 1.25200E-002 | 1.15200E-002 | 0.00000E+000 | 2.56652E+001 | 2.56652E+001 | 8.30000E-003 | 0.00000E+000 | 2.58727E+001 |
| Welders | 1.12890E-001 | 5.18540E-001 | 5.83110E-001 | 8.40000E-004 | 2.86700E-002 | 2.86700E-002 | 0.00000E+000 | 6.21127E+001 | 6.21127E+001 | 9.18000E-003 | 0.00000E+000 | 6.23423E+001 |

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Percent Reduction | | | | | | | | | | | | |
| Air Compressors | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.06816E-006 | 1.06816E-006 | 0.00000E+000 | 0.00000E+000 | 1.06609E-006 |
| Cement and Mortar Mixers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Cranes | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.25534E-006 | 1.25534E-006 | 0.00000E+000 | 0.00000E+000 | 1.24527E-006 |
| Forklifts | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.16049E-006 | 1.16049E-006 | 0.00000E+000 | 0.00000E+000 | 1.15119E-006 |
| Generator Sets | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.12589E-006 | 1.12589E-006 | 0.00000E+000 | 0.00000E+000 | 1.12431E-006 |
| Graders | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 3.78070E-006 |
| Pavers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 4.80358E-006 |
| Paving Equipment | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Rollers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Rubber Tired Dozers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 4.44117E-006 | 4.44117E-006 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Scrapers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Tractors/Loaders/Balckhoes | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.16890E-006 | 1.16890E-006 | 0.00000E+000 | 0.00000E+000 | 1.15952E-006 |
| Welders | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.28798E-006 | 1.28798E-006 | 0.00000E+000 | 0.00000E+000 | 1.28324E-006 |

Fugitive Dust Mitigation

| Yes/No | Mitigation Measure | Mitigation Input | Mitigation Input | Mitigation Input |
|--------|--|------------------|------------------|---------------------|
| No | Soil Stabilizer for unpaved Roads | PM10 Reduction | PM2.5 Reduction | |
| No | Replace Ground Cover of Area Disturbed | PM10 Reduction | PM2.5 Reduction | |
| No | Water Exposed Area | PM10 Reduction | PM2.5 Reduction | Frequency (per day) |

| | | | | |
|----|-------------------------|-----------------------|------------------------|------|
| No | Unpaved Road Mitigation | Moisture Content % | Vehicle Speed (mph) | 0.00 |
| No | Clean Paved Road | % PM Reduction | | 0.00 |

| Phase | Source | Unmitigated | | Mitigated | | Percent Reduction | |
|-----------------------|---------------|-------------|-------|-----------|-------|-------------------|-------|
| | | PM10 | PM2.5 | PM10 | PM2.5 | PM10 | PM2.5 |
| Architectural Coating | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Architectural Coating | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Building Construction | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Building Construction | Roads | 0.03 | 0.01 | 0.03 | 0.01 | 0.00 | 0.00 |
| Grading | Fugitive Dust | 0.02 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 |
| Grading | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Site Preparation | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Site Preparation | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Operational Percent Reduction Summary

| Category | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|------|------|------|------|--------------|---------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mobile | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Water Indoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Water Outdoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Operational Mobile Mitigation

Project Setting:

| Mitigation | Category | Measure | % Reduction | Input Value 1 | Input Value 2 | Input Value |
|------------|----------|-------------------------------------|-------------|---------------|---------------|-------------|
| No | Land Use | Increase Density | 0.00 | | | |
| No | Land Use | Increase Diversity | 0.09 | 0.30 | | |
| No | Land Use | Improve Walkability Design | 0.00 | | | |
| No | Land Use | Improve Destination Accessibility | 0.00 | | | |
| No | Land Use | Increase Transit Accessibility | 0.25 | | | |
| No | Land Use | Integrate Below Market Rate Housing | 0.00 | | | |
| | Land Use | Land Use Sub Total | 0.00 | | | |

| No | Neighborhood Enhancements | Improve Pedestrian Network | | | |
|----|---------------------------|--|------|--|------|
| No | Neighborhood Enhancements | Provide Traffic Calming Measures | | | |
| No | Neighborhood Enhancements | Implement NEV Network | 0.00 | | |
| No | Neighborhood Enhancements | Neighborhood Enhancements Subtotal | 0.00 | | |
| No | Parking Policy Pricing | Limit Parking Supply | 0.00 | | |
| No | Parking Policy Pricing | Unbundle Parking Costs | 0.00 | | |
| No | Parking Policy Pricing | On-street Market Pricing | 0.00 | | |
| No | Parking Policy Pricing | Parking Policy Pricing Subtotal | 0.00 | | |
| No | Transit Improvements | Provide BRT System | 0.00 | | |
| No | Transit Improvements | Expand Transit Network | 0.00 | | |
| No | Transit Improvements | Increase Transit Frequency | 0.00 | | |
| No | Transit Improvements | Transit Improvements Subtotal | 0.00 | | |
| No | Commuter | Land Use and Site Enhancement Subtotal | 0.00 | | |
| No | Commuter | Implement Trip Reduction Program | | | |
| No | Commuter | Transit Subsidy | | | |
| No | Commuter | Implement Employee Parking "Cash Out" | | | |
| No | Commuter | Workplace Parking Charge | | | |
| No | Commuter | Encourage Telecommuting and Alternative Work Schedules | 0.00 | | |
| No | Commuter | Market Commute Trip Reduction Option | 0.00 | | |
| No | Commuter | Employee Vanpool/Shuttle | 0.00 | | 2.00 |
| No | Commuter | Provide Ride Sharing Program | | | |
| No | Commuter | Commuter Subtotal | 0.00 | | |

| | | | |
|----|-------------|------------------------------|------|
| No | School Trip | Implement School Bus Program | 0.00 |
| | | Total VMT Reduction | 0.00 |

Area Mitigation

| Measure Implemented | Mitigation Measure | Input Value |
|---------------------|--|-------------|
| No | Only Natural Gas Hearth | |
| No | No Hearth | |
| No | Use Low VOC Cleaning Supplies | |
| No | Use Low VOC Paint (Residential Interior) | 100.00 |
| No | Use Low VOC Paint (Residential Exterior) | 150.00 |
| No | Use Low VOC Paint (Non-residential Interior) | 100.00 |
| No | Use Low VOC Paint (Non-residential Exterior) | 150.00 |
| No | Use Low VOC Paint (Parking) | 150.00 |
| No | % Electric Lawnmower | |
| No | % Electric Leafblower | |
| No | % Electric Chainsaw | |

Energy Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---------------------|----------------------------------|---------------|---------------|
| No | Exceed Title 24 | | |
| No | Install High Efficiency Lighting | | |
| No | On-site Renewable | | |

| Appliance Type | Land Use Subtype | % Improvement |
|----------------|------------------|---------------|
| ClothWasher | | 30.00 |
| DishWasher | | 15.00 |
| Fan | | 50.00 |
| Refrigerator | | 15.00 |

Water Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---------------------|--|---------------|---------------|
| No | Apply Water Conservation on Strategy | | |
| No | Use Reclaimed Water | | |
| No | Use Grey Water | | |
| No | Install low-flow bathroom faucet | 32.00 | |
| No | Install low-flow Kitchen faucet | 18.00 | |
| No | Install low-flow Toilet | 20.00 | |
| No | Install low-flow Shower | 20.00 | |
| No | Turf Reduction | | |
| No | Use Water Efficient Irrigation Systems | 6.10 | |
| No | Water Efficient Landscape | | |

Solid Waste Mitigation

| Mitigation Measures | Input Value |
|---------------------|-------------|
| | |

Institute Recycling and Composting Services
Percent Reduction in Waste Disposed