

Appendix C

Air Quality, Energy, and Greenhouse Gases Analysis

| Fuel Consumption Summary | | |
|---------------------------------|-----------------|---------------|
| Construction Fuel Consumption | Gasoline | Diesel |
| Construction On-Road Vehicles | 621 | 3,413 |
| Construction Off-Road Equipment | | 11,626 |
| Total For Construction | 621 | 15,039 |

| | Phase | Vehicle Type | Construction Phase Days | Trips Per Day | Total Trips | Miles Per Trip | Total Miles | Fuel Type | Gasoline | | Diesel | |
|---|-----------------------|--------------|-------------------------|---------------|-------------|----------------|-------------|---------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|
| | | | | | | | | | Weighted Fuel Economy (miles/gallon) | Fuel Consumption (gallons) | Weighted Fuel Economy (miles/gallon) | Fuel Consumption (gallons) |
| Construction On-Road Vehicles | Demolition | Worker | 20 | 10 | 200 | 10 | 2,000 | LDA,LDT1, LD2 | 26.12219082 | 76.09 | 33.23189398 | 0.37 |
| | | Vendor | 20 | 0 | 0 | 7 | - | HHDT, MHDT | | | 7.256849012 | - |
| | | Hauling | | | 18 | 20 | 360 | HHDT | | | 5.988933588 | 60 |
| | Site Preparation | Worker | 3 | 5 | 15 | 10 | 150 | LDA,LDT1, LD2 | 26.12219082 | 5.71 | 33.23189398 | 0.03 |
| | | Vendor | 3 | 0 | 0 | 7 | - | HHDT, MHDT | | | 7.256849012 | - |
| | | Hauling | | | 0 | 20 | - | HHDT | | | 5.988933588 | - |
| | Grading | Worker | 29 | 13 | 377 | 10 | 3,770 | LDA,LDT1, LD2 | 26.12219082 | 143.42 | 33.23189398 | 0.71 |
| | | Vendor | 29 | 0 | 0 | 7 | - | HHDT, MHDT | | | 7.256849012 | - |
| | | Hauling | | | 876 | 20 | 17,520 | HHDT | | | 5.988933588 | 2,925 |
| | Building Construction | Worker | 16 | 10 | 160 | 10 | 1,600 | LDA,LDT1, LD2 | 26.12219082 | 60.87 | 33.23189398 | 0.30 |
| | | Vendor | 16 | 0 | 0 | 7 | - | HHDT, MHDT | | | 7.256849012 | - |
| | | Hauling | | | 0 | 20 | - | HHDT | | | 5.988933588 | - |
| | Paving | Worker | 44 | 20 | 880 | 10 | 8,800 | LDA,LDT1, LD2 | 26.12219082 | 334.78 | 33.23189398 | 1.65 |
| | | Vendor | 44 | 10 | 440 | 7 | 3,080 | HHDT, MHDT | | | 7.256849012 | 424 |
| | | Hauling | | | 0 | 20 | - | HHDT | | | 5.988933588 | - |
| Total Fuel Consumption (Gallons) | | | | | | | | | 620.86 | | | 3,412.99 |

Notes:

1. Fuel Consumption is total miles multiplied by the percent gasoline or diesel respectively and then divided by fuel economy. It was assumed all MHDT and HHDT are diesel. LDA, LDT1, and LDT2 were assumed to be a mix of gasoline and diesel as ratioed by their VMT.

| | LDA,LDT1,LDT2 | MHDT | HHDT |
|------------|---------------|------|------|
| Gasoline % | 99.38% | 0 | 0 |
| Diesel % | 0.62% | 1 | 1 |

| | Offroad Equipment Type | Amount | Days in Phase | Usage Hours | Horse Power | Load Factor | Fuel Consumption Rate lb/hp-hr | Diesel Fuel Consumption (gallons) |
|--|---------------------------|--------|---------------|-------------|-------------|-------------|--------------------------------|-----------------------------------|
| Demolition | Concrete/Industrial Saws | 1 | 20 | 8 | 81 | 0.73 | 0.408 | 543 |
| Demolition | Rubber Tired Dozers | 1 | 20 | 8 | 247 | 0.4 | 0.367 | 816 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 20 | 8 | 97 | 0.37 | 0.408 | 659 |
| Site Preparation | Graders | 1 | 3 | 8 | 187 | 0.41 | 0.367 | 95 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 3 | 8 | 97 | 0.37 | 0.408 | 49 |
| Grading | Off-Highway Trucks | 2 | 29 | 8 | 402 | 0.38 | 0.367 | 3,659 |
| Grading | Rubber Tired Dozers | 1 | 29 | 8 | 247 | 0.4 | 0.367 | 1,183 |
| Grading | Tractors/Loaders/Backhoes | 2 | 29 | 8 | 97 | 0.37 | 0.408 | 956 |
| Building Construction | Cranes | 1 | 16 | 8 | 231 | 0.29 | 0.367 | 443 |
| Building Construction | Forklifts | 2 | 16 | 8 | 89 | 0.2 | 0.408 | 262 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 16 | 8 | 97 | 0.37 | 0.408 | 527 |
| Paving | Cement and Mortar Mixers | 1 | 44 | 8 | 9 | 0.56 | 0.408 | 102 |
| Paving | Pavers | 1 | 44 | 8 | 130 | 0.42 | 0.367 | 992 |
| Paving | Rollers | 1 | 44 | 8 | 80 | 0.38 | 0.408 | 614 |
| Paving | Tractors/Loaders/Backhoes | 1 | 44 | 8 | 97 | 0.37 | 0.408 | 725 |
| Total Diesel Fuel Use from Construction Off-Road | | | | | | | | 11,626 |
| | | | | | | | | |

1. Equipment list is from CalEEMod.
2. Fuel Consumption is 0.408 for less than 100 hp and .367 if greater than or equal to 100 hp based on CARB Off-Road Diesel Engine Emission Factors
3. To convert to gallons the conversion factor of 7.1089 lb/fallon is used
4. Fuel consumption is amount multiplied by usage hours, days in phase, horsepower, loadfactor, and fuel consumption rate divided by conversion factor.

CHP Academy Drainage Channel - Yolo County, Annual

**CHP Academy Drainage Channel
Yolo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|--------|----------|-------------|--------------------|------------|
| Other Non-Asphalt Surfaces | 190.00 | 1000sqft | 4.36 | 190,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 6.8 | Precipitation Freq (Days) | 54 |
| Climate Zone | 2 | | | Operational Year | 2022 |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 641.35 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

CHP Academy Drainage Channel - Yolo County, Annual

Project Characteristics -

Land Use -

Construction Phase - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback. Off-Highway Trucks = Dumptrucks

Off-road Equipment - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback

Trips and VMT - Based on Data Needs Feedback

Demolition - Removal of pavement and culverts

Grading - Based on Project Description. Material import includes rip-rap, gravel, and concrete. volume increased to reflect smaller volumes of concrete per hauling trip.

Area Coating -

| Table Name | Column Name | Default Value | New Value |
|----------------------|----------------------------|---------------|-----------|
| tblConstructionPhase | NumDays | 5.00 | 3.00 |
| tblConstructionPhase | NumDays | 8.00 | 29.00 |
| tblConstructionPhase | NumDays | 230.00 | 16.00 |
| tblConstructionPhase | NumDays | 18.00 | 44.00 |
| tblGrading | AcresOfGrading | 0.00 | 4.40 |
| tblGrading | MaterialExported | 0.00 | 6,000.00 |
| tblGrading | MaterialImported | 0.00 | 1,008.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

CHP Academy Drainage Channel - Yolo County, Annual

| | | | |
|---------------------|----------------------------|-------|-------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblTripsAndVMT | VendorTripNumber | 31.00 | 0.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 10.00 |
| tblTripsAndVMT | WorkerTripNumber | 80.00 | 10.00 |
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 20.00 |

2.0 Emissions Summary

CHP Academy Drainage Channel - Yolo County, Annual

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1 | 1-18-2021 | 4-17-2021 | 0.7968 | 0.7968 |
| 2 | 4-18-2021 | 7-17-2021 | 0.2130 | 0.2130 |
| | | Highest | 0.7968 | 0.7968 |

2.2 Overall Operational
Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.0164 | 2.0000e-005 | 1.7500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0164 | 2.0000e-005 | 1.7500e-003 | 0.0000 | 0.0000 | 1.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |

CHP Academy Drainage Channel - Yolo County, Annual

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.0164 | 2.0000e-005 | 1.7500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0164 | 2.0000e-005 | 1.7500e-003 | 0.0000 | 0.0000 | 1.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |

| | ROG | NOx | CO | SO2 | 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

CHP Academy Drainage Channel - Yolo County, Annual

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/18/2021 | 2/12/2021 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 2/13/2021 | 2/17/2021 | 5 | 3 | |
| 3 | Grading | Grading | 2/18/2021 | 3/30/2021 | 5 | 29 | |
| 4 | Building Construction | Building Construction | 4/1/2021 | 4/22/2021 | 5 | 16 | |
| 5 | Paving | Paving | 4/23/2021 | 6/23/2021 | 5 | 44 | |

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 4.4

Acres of Paving: 4.36

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

OffRoad Equipment

CHP Academy Drainage Channel - Yolo County, Annual

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Grading | Excavators | 0 | 8.00 | 158 | 0.38 |
| Grading | Graders | 0 | 8.00 | 187 | 0.41 |
| Grading | Off-Highway Trucks | 2 | 8.00 | 402 | 0.38 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 0 | 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 | 0 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

Trips and VMT

CHP Academy Drainage Channel - Yolo County, Annual

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 4 | 10.00 | 0.00 | 18.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 5 | 13.00 | 0.00 | 876.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 10.00 | 0.00 | 0.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 4 | 20.00 | 10.00 | 0.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.2600e-003 | 0.0000 | 2.2600e-003 | 3.4000e-004 | 0.0000 | 3.4000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0181 | 0.1780 | 0.1223 | 2.1000e-004 | | 9.2900e-003 | 9.2900e-003 | | 8.6900e-003 | 8.6900e-003 | 0.0000 | 18.3416 | 18.3416 | 4.5100e-003 | 0.0000 | 18.4543 |
| Total | 0.0181 | 0.1780 | 0.1223 | 2.1000e-004 | 2.2600e-003 | 9.2900e-003 | 0.0116 | 3.4000e-004 | 8.6900e-003 | 9.0300e-003 | 0.0000 | 18.3416 | 18.3416 | 4.5100e-003 | 0.0000 | 18.4543 |

CHP Academy Drainage Channel - Yolo County, Annual

3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 6.0000e-005 | 2.2300e-003 | 3.8000e-004 | 1.0000e-005 | 0.0137 | 1.0000e-005 | 0.0137 | 1.3900e-003 | 1.0000e-005 | 1.4000e-003 | 0.0000 | 0.6968 | 0.6968 | 2.0000e-005 | 0.0000 | 0.6974 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.3000e-004 | 2.1000e-004 | 2.2200e-003 | 1.0000e-005 | 0.0759 | 0.0000 | 0.0759 | 7.6900e-003 | 0.0000 | 7.7000e-003 | 0.0000 | 0.6239 | 0.6239 | 1.0000e-005 | 0.0000 | 0.6243 |
| Total | 3.9000e-004 | 2.4400e-003 | 2.6000e-003 | 2.0000e-005 | 0.0896 | 1.0000e-005 | 0.0896 | 9.0800e-003 | 1.0000e-005 | 9.1000e-003 | 0.0000 | 1.3207 | 1.3207 | 3.0000e-005 | 0.0000 | 1.3217 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.2600e-003 | 0.0000 | 2.2600e-003 | 3.4000e-004 | 0.0000 | 3.4000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0181 | 0.1780 | 0.1223 | 2.1000e-004 | | 9.2900e-003 | 9.2900e-003 | | 8.6900e-003 | 8.6900e-003 | 0.0000 | 18.3416 | 18.3416 | 4.5100e-003 | 0.0000 | 18.4542 |
| Total | 0.0181 | 0.1780 | 0.1223 | 2.1000e-004 | 2.2600e-003 | 9.2900e-003 | 0.0116 | 3.4000e-004 | 8.6900e-003 | 9.0300e-003 | 0.0000 | 18.3416 | 18.3416 | 4.5100e-003 | 0.0000 | 18.4542 |

CHP Academy Drainage Channel - Yolo County, Annual

3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 6.0000e-005 | 2.2300e-003 | 3.8000e-004 | 1.0000e-005 | 1.5000e-004 | 1.0000e-005 | 1.5000e-004 | 4.0000e-005 | 1.0000e-005 | 5.0000e-005 | 0.0000 | 0.6968 | 0.6968 | 2.0000e-005 | 0.0000 | 0.6974 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.3000e-004 | 2.1000e-004 | 2.2200e-003 | 1.0000e-005 | 7.0000e-004 | 0.0000 | 7.0000e-004 | 1.9000e-004 | 0.0000 | 1.9000e-004 | 0.0000 | 0.6239 | 0.6239 | 1.0000e-005 | 0.0000 | 0.6243 |
| Total | 3.9000e-004 | 2.4400e-003 | 2.6000e-003 | 2.0000e-005 | 8.5000e-004 | 1.0000e-005 | 8.5000e-004 | 2.3000e-004 | 1.0000e-005 | 2.4000e-004 | 0.0000 | 1.3207 | 1.3207 | 3.0000e-005 | 0.0000 | 1.3217 |

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 8.0000e-004 | 0.0000 | 8.0000e-004 | 9.0000e-005 | 0.0000 | 9.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.6000e-004 | 0.0117 | 6.0400e-003 | 1.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2827 | 1.2827 | 4.1000e-004 | 0.0000 | 1.2930 |
| Total | 9.6000e-004 | 0.0117 | 6.0400e-003 | 1.0000e-005 | 8.0000e-004 | 4.5000e-004 | 1.2500e-003 | 9.0000e-005 | 4.1000e-004 | 5.0000e-004 | 0.0000 | 1.2827 | 1.2827 | 4.1000e-004 | 0.0000 | 1.2930 |

CHP Academy Drainage Channel - Yolo County, Annual

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.0000e-005 | 2.0000e-005 | 1.7000e-004 | 0.0000 | 5.7000e-003 | 0.0000 | 5.7000e-003 | 5.8000e-004 | 0.0000 | 5.8000e-004 | 0.0000 | 0.0468 | 0.0468 | 0.0000 | 0.0000 | 0.0468 |
| Total | 2.0000e-005 | 2.0000e-005 | 1.7000e-004 | 0.0000 | 5.7000e-003 | 0.0000 | 5.7000e-003 | 5.8000e-004 | 0.0000 | 5.8000e-004 | 0.0000 | 0.0468 | 0.0468 | 0.0000 | 0.0000 | 0.0468 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 8.0000e-004 | 0.0000 | 8.0000e-004 | 9.0000e-005 | 0.0000 | 9.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.6000e-004 | 0.0117 | 6.0400e-003 | 1.0000e-005 | | 4.5000e-004 | 4.5000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2827 | 1.2827 | 4.1000e-004 | 0.0000 | 1.2930 |
| Total | 9.6000e-004 | 0.0117 | 6.0400e-003 | 1.0000e-005 | 8.0000e-004 | 4.5000e-004 | 1.2500e-003 | 9.0000e-005 | 4.1000e-004 | 5.0000e-004 | 0.0000 | 1.2827 | 1.2827 | 4.1000e-004 | 0.0000 | 1.2930 |

CHP Academy Drainage Channel - Yolo County, Annual

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.0000e-005 | 2.0000e-005 | 1.7000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0468 | 0.0468 | 0.0000 | 0.0000 | 0.0468 |
| Total | 2.0000e-005 | 2.0000e-005 | 1.7000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0468 | 0.0468 | 0.0000 | 0.0000 | 0.0468 |

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0914 | 0.0000 | 0.0914 | 0.0485 | 0.0000 | 0.0485 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0382 | 0.3667 | 0.2286 | 6.0000e-004 | | 0.0166 | 0.0166 | | 0.0152 | 0.0152 | 0.0000 | 52.4352 | 52.4352 | 0.0170 | 0.0000 | 52.8591 |
| Total | 0.0382 | 0.3667 | 0.2286 | 6.0000e-004 | 0.0914 | 0.0166 | 0.1079 | 0.0485 | 0.0152 | 0.0638 | 0.0000 | 52.4352 | 52.4352 | 0.0170 | 0.0000 | 52.8591 |

CHP Academy Drainage Channel - Yolo County, Annual

3.4 Grading - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 3.1500e-003 | 0.1087 | 0.0186 | 3.6000e-004 | 0.6661 | 3.6000e-004 | 0.6665 | 0.0677 | 3.4000e-004 | 0.0681 | 0.0000 | 33.9116 | 33.9116 | 1.1000e-003 | 0.0000 | 33.9392 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.2000e-004 | 4.0000e-004 | 4.1800e-003 | 1.0000e-005 | 0.1431 | 1.0000e-005 | 0.1432 | 0.0145 | 1.0000e-005 | 0.0145 | 0.0000 | 1.1761 | 1.1761 | 3.0000e-005 | 0.0000 | 1.1768 |
| Total | 3.7700e-003 | 0.1091 | 0.0227 | 3.7000e-004 | 0.8093 | 3.7000e-004 | 0.8097 | 0.0822 | 3.5000e-004 | 0.0826 | 0.0000 | 35.0877 | 35.0877 | 1.1300e-003 | 0.0000 | 35.1160 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0914 | 0.0000 | 0.0914 | 0.0485 | 0.0000 | 0.0485 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0382 | 0.3667 | 0.2286 | 6.0000e-004 | | 0.0166 | 0.0166 | | 0.0152 | 0.0152 | 0.0000 | 52.4351 | 52.4351 | 0.0170 | 0.0000 | 52.8591 |
| Total | 0.0382 | 0.3667 | 0.2286 | 6.0000e-004 | 0.0914 | 0.0166 | 0.1079 | 0.0485 | 0.0152 | 0.0638 | 0.0000 | 52.4351 | 52.4351 | 0.0170 | 0.0000 | 52.8591 |

CHP Academy Drainage Channel - Yolo County, Annual

3.4 Grading - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 3.1500e-003 | 0.1087 | 0.0186 | 3.6000e-004 | 7.0600e-003 | 3.6000e-004 | 7.4200e-003 | 1.9500e-003 | 3.4000e-004 | 2.2900e-003 | 0.0000 | 33.9116 | 33.9116 | 1.1000e-003 | 0.0000 | 33.9392 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.2000e-004 | 4.0000e-004 | 4.1800e-003 | 1.0000e-005 | 1.3200e-003 | 1.0000e-005 | 1.3200e-003 | 3.5000e-004 | 1.0000e-005 | 3.6000e-004 | 0.0000 | 1.1761 | 1.1761 | 3.0000e-005 | 0.0000 | 1.1768 |
| Total | 3.7700e-003 | 0.1091 | 0.0227 | 3.7000e-004 | 8.3800e-003 | 3.7000e-004 | 8.7400e-003 | 2.3000e-003 | 3.5000e-004 | 2.6500e-003 | 0.0000 | 35.0877 | 35.0877 | 1.1300e-003 | 0.0000 | 35.1160 |

3.5 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 8.3700e-003 | 0.0880 | 0.0707 | 1.2000e-004 | | 4.7000e-003 | 4.7000e-003 | | 4.3300e-003 | 4.3300e-003 | 0.0000 | 10.5713 | 10.5713 | 3.4200e-003 | 0.0000 | 10.6567 |
| Total | 8.3700e-003 | 0.0880 | 0.0707 | 1.2000e-004 | | 4.7000e-003 | 4.7000e-003 | | 4.3300e-003 | 4.3300e-003 | 0.0000 | 10.5713 | 10.5713 | 3.4200e-003 | 0.0000 | 10.6567 |

CHP Academy Drainage Channel - Yolo County, Annual

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.6000e-004 | 1.7000e-004 | 1.7800e-003 | 1.0000e-005 | 0.0608 | 0.0000 | 0.0608 | 6.1600e-003 | 0.0000 | 6.1600e-003 | 0.0000 | 0.4991 | 0.4991 | 1.0000e-005 | 0.0000 | 0.4994 |
| Total | 2.6000e-004 | 1.7000e-004 | 1.7800e-003 | 1.0000e-005 | 0.0608 | 0.0000 | 0.0608 | 6.1600e-003 | 0.0000 | 6.1600e-003 | 0.0000 | 0.4991 | 0.4991 | 1.0000e-005 | 0.0000 | 0.4994 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 8.3700e-003 | 0.0880 | 0.0707 | 1.2000e-004 | | 4.7000e-003 | 4.7000e-003 | | 4.3300e-003 | 4.3300e-003 | 0.0000 | 10.5712 | 10.5712 | 3.4200e-003 | 0.0000 | 10.6567 |
| Total | 8.3700e-003 | 0.0880 | 0.0707 | 1.2000e-004 | | 4.7000e-003 | 4.7000e-003 | | 4.3300e-003 | 4.3300e-003 | 0.0000 | 10.5712 | 10.5712 | 3.4200e-003 | 0.0000 | 10.6567 |

CHP Academy Drainage Channel - Yolo County, Annual

3.5 Building Construction - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.6000e-004 | 1.7000e-004 | 1.7800e-003 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 5.6000e-004 | 1.5000e-004 | 0.0000 | 1.5000e-004 | 0.0000 | 0.4991 | 0.4991 | 1.0000e-005 | 0.0000 | 0.4994 |
| Total | 2.6000e-004 | 1.7000e-004 | 1.7800e-003 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 5.6000e-004 | 1.5000e-004 | 0.0000 | 1.5000e-004 | 0.0000 | 0.4991 | 0.4991 | 1.0000e-005 | 0.0000 | 0.4994 |

3.6 Paving - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0150 | 0.1492 | 0.1618 | 2.5000e-004 | | 8.1200e-003 | 8.1200e-003 | | 7.5000e-003 | 7.5000e-003 | 0.0000 | 21.1669 | 21.1669 | 6.6200e-003 | 0.0000 | 21.3325 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0150 | 0.1492 | 0.1618 | 2.5000e-004 | | 8.1200e-003 | 8.1200e-003 | | 7.5000e-003 | 7.5000e-003 | 0.0000 | 21.1669 | 21.1669 | 6.6200e-003 | 0.0000 | 21.3325 |

CHP Academy Drainage Channel - Yolo County, Annual

3.6 Paving - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 5.9000e-004 | 0.0232 | 3.9300e-003 | 6.0000e-005 | 0.1172 | 5.0000e-005 | 0.1173 | 0.0120 | 5.0000e-005 | 0.0120 | 0.0000 | 5.6519 | 5.6519 | 2.7000e-004 | 0.0000 | 5.6587 |
| Worker | 1.4400e-003 | 9.3000e-004 | 9.7700e-003 | 3.0000e-005 | 0.3341 | 2.0000e-005 | 0.3341 | 0.0339 | 2.0000e-005 | 0.0339 | 0.0000 | 2.7453 | 2.7453 | 6.0000e-005 | 0.0000 | 2.7469 |
| Total | 2.0300e-003 | 0.0241 | 0.0137 | 9.0000e-005 | 0.4513 | 7.0000e-005 | 0.4514 | 0.0458 | 7.0000e-005 | 0.0459 | 0.0000 | 8.3972 | 8.3972 | 3.3000e-004 | 0.0000 | 8.4056 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0150 | 0.1492 | 0.1618 | 2.5000e-004 | | 8.1200e-003 | 8.1200e-003 | | 7.5000e-003 | 7.5000e-003 | 0.0000 | 21.1668 | 21.1668 | 6.6200e-003 | 0.0000 | 21.3324 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0150 | 0.1492 | 0.1618 | 2.5000e-004 | | 8.1200e-003 | 8.1200e-003 | | 7.5000e-003 | 7.5000e-003 | 0.0000 | 21.1668 | 21.1668 | 6.6200e-003 | 0.0000 | 21.3324 |

CHP Academy Drainage Channel - Yolo County, Annual

3.6 Paving - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 5.9000e-004 | 0.0232 | 3.9300e-003 | 6.0000e-005 | 1.3300e-003 | 5.0000e-005 | 1.3800e-003 | 3.9000e-004 | 5.0000e-005 | 4.4000e-004 | 0.0000 | 5.6519 | 5.6519 | 2.7000e-004 | 0.0000 | 5.6587 |
| Worker | 1.4400e-003 | 9.3000e-004 | 9.7700e-003 | 3.0000e-005 | 3.0700e-003 | 2.0000e-005 | 3.0900e-003 | 8.2000e-004 | 2.0000e-005 | 8.4000e-004 | 0.0000 | 2.7453 | 2.7453 | 6.0000e-005 | 0.0000 | 2.7469 |
| Total | 2.0300e-003 | 0.0241 | 0.0137 | 9.0000e-005 | 4.4000e-003 | 7.0000e-005 | 4.4700e-003 | 1.2100e-003 | 7.0000e-005 | 1.2800e-003 | 0.0000 | 8.3972 | 8.3972 | 3.3000e-004 | 0.0000 | 8.4056 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

CHP Academy Drainage Channel - Yolo County, Annual

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Other Non-Asphalt Surfaces | 10.00 | 5.00 | 7.00 | 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 |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Non-Asphalt Surfaces | 0.492305 | 0.039568 | 0.208718 | 0.119283 | 0.022760 | 0.005403 | 0.060505 | 0.041350 | 0.001014 | 0.001744 | 0.005799 | 0.000759 | 0.000791 |

5.0 Energy Detail

Historical Energy Use: N

CHP Academy Drainage Channel - Yolo County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

CHP Academy Drainage Channel - Yolo County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|--------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0164 | 2.0000e-005 | 1.7500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |
| Unmitigated | 0.0164 | 2.0000e-005 | 1.7500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |

CHP Academy Drainage Channel - Yolo County, Annual

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 3.9600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0123 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.6000e-004 | 2.0000e-005 | 1.7500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |
| Total | 0.0164 | 2.0000e-005 | 1.7500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 3.9600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0123 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.6000e-004 | 2.0000e-005 | 1.7500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |
| Total | 0.0164 | 2.0000e-005 | 1.7500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 3.4000e-003 | 3.4000e-003 | 1.0000e-005 | 0.0000 | 3.6200e-003 |

7.0 Water Detail

CHP Academy Drainage Channel - Yolo County, Annual

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|--------|
| Category | MT/yr | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------------|---------------|---------------|---------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

CHP Academy Drainage Channel - Yolo County, Annual

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------------|---------------|---------------|---------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

CHP Academy Drainage Channel - Yolo County, Annual

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

9.0 Operational Offroad

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

CHP Academy Drainage Channel - Yolo County, Annual

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

CHP Academy Drainage Channel - Yolo County, Summer

CHP Academy Drainage Channel
Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|--------|----------|-------------|--------------------|------------|
| Other Non-Asphalt Surfaces | 190.00 | 1000sqft | 4.36 | 190,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|--------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 6.8 | Precipitation Freq (Days) | 54 |
| Climate Zone | 2 | | | Operational Year | 2022 |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MWhr) | 641.35 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

CHP Academy Drainage Channel - Yolo County, Summer

Project Characteristics -

Land Use -

Construction Phase - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback. Off-Highway Trucks = Dumptrucks

Off-road Equipment - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback

Trips and VMT - Based on Data Needs Feedback

Demolition - Removal of pavement and culverts

Grading - Based on Project Description. Material import includes rip-rap, gravel, and concrete. volume increased to reflect smaller volumes of concrete per hauling trip.

Area Coating -

| Table Name | Column Name | Default Value | New Value |
|----------------------|----------------------------|---------------|-----------|
| tblConstructionPhase | NumDays | 5.00 | 3.00 |
| tblConstructionPhase | NumDays | 8.00 | 29.00 |
| tblConstructionPhase | NumDays | 230.00 | 16.00 |
| tblConstructionPhase | NumDays | 18.00 | 44.00 |
| tblGrading | AcresOfGrading | 0.00 | 4.40 |
| tblGrading | MaterialExported | 0.00 | 6,000.00 |
| tblGrading | MaterialImported | 0.00 | 1,008.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

CHP Academy Drainage Channel - Yolo County, Summer

| | | | |
|---------------------|----------------------------|-------|-------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblTripsAndVMT | VendorTripNumber | 31.00 | 0.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 10.00 |
| tblTripsAndVMT | WorkerTripNumber | 80.00 | 10.00 |
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 20.00 |

2.0 Emissions Summary

CHP Academy Drainage Channel - Yolo County, Summer

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|---------------|---------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | 0.0000 | 7.0000e-005 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | 0.0000 | 0.0443 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|---------------|---------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | 0.0000 | 7.0000e-005 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | 0.0000 | 0.0443 |

CHP Academy Drainage Channel - Yolo County, Summer

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/18/2021 | 2/12/2021 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 2/13/2021 | 2/17/2021 | 5 | 3 | |
| 3 | Grading | Grading | 2/18/2021 | 3/30/2021 | 5 | 29 | |
| 4 | Building Construction | Building Construction | 4/1/2021 | 4/22/2021 | 5 | 16 | |
| 5 | Paving | Paving | 4/23/2021 | 6/23/2021 | 5 | 44 | |

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 4.4

Acres of Paving: 4.36

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

OffRoad Equipment

CHP Academy Drainage Channel - Yolo County, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Grading | Excavators | 0 | 8.00 | 158 | 0.38 |
| Grading | Graders | 0 | 8.00 | 187 | 0.41 |
| Grading | Off-Highway Trucks | 2 | 8.00 | 402 | 0.38 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 0 | 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 | 0 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

Trips and VMT

CHP Academy Drainage Channel - Yolo County, Summer

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 4 | 10.00 | 0.00 | 18.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 5 | 13.00 | 0.00 | 876.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 10.00 | 0.00 | 0.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 4 | 20.00 | 10.00 | 0.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.2256 | 0.0000 | 0.2256 | 0.0342 | 0.0000 | 0.0342 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.8057 | 17.8008 | 12.2323 | 0.0210 | | 0.9291 | 0.9291 | | 0.8686 | 0.8686 | | 2,021.8170 | 2,021.8170 | 0.4966 | | 2,034.2328 |
| Total | 1.8057 | 17.8008 | 12.2323 | 0.0210 | 0.2256 | 0.9291 | 1.1547 | 0.0342 | 0.8686 | 0.9028 | | 2,021.8170 | 2,021.8170 | 0.4966 | | 2,034.2328 |

CHP Academy Drainage Channel - Yolo County, Summer

3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|----------------|--------------------|----------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 6.3800e-003 | 0.2166 | 0.0365 | 7.4000e-004 | 1.6043 | 7.3000e-004 | 1.6051 | 0.1627 | 7.0000e-004 | 0.1634 | | 77.4034 | 77.4034 | 2.3800e-003 | | 77.4630 |
| 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 | 0.0378 | 0.0191 | 0.2581 | 7.6000e-004 | 8.9022 | 4.7000e-004 | 8.9027 | 0.9003 | 4.4000e-004 | 0.9008 | | 75.7638 | 75.7638 | 1.7800e-003 | | 75.8084 |
| Total | 0.0442 | 0.2358 | 0.2946 | 1.5000e-003 | 10.5065 | 1.2000e-003 | 10.5077 | 1.0630 | 1.1400e-003 | 1.0642 | | 153.1672 | 153.1672 | 4.1600e-003 | | 153.2713 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.2256 | 0.0000 | 0.2256 | 0.0342 | 0.0000 | 0.0342 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.8057 | 17.8008 | 12.2323 | 0.0210 | | 0.9291 | 0.9291 | | 0.8686 | 0.8686 | 0.0000 | 2,021.8170 | 2,021.8170 | 0.4966 | | 2,034.2328 |
| Total | 1.8057 | 17.8008 | 12.2323 | 0.0210 | 0.2256 | 0.9291 | 1.1547 | 0.0342 | 0.8686 | 0.9028 | 0.0000 | 2,021.8170 | 2,021.8170 | 0.4966 | | 2,034.2328 |

CHP Academy Drainage Channel - Yolo County, Summer

3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 6.3800e-003 | 0.2166 | 0.0365 | 7.4000e-004 | 0.0149 | 7.3000e-004 | 0.0157 | 4.1000e-003 | 7.0000e-004 | 4.8000e-003 | | 77.4034 | 77.4034 | 2.3800e-003 | | 77.4630 |
| 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 | 0.0378 | 0.0191 | 0.2581 | 7.6000e-004 | 0.0721 | 4.7000e-004 | 0.0726 | 0.0192 | 4.4000e-004 | 0.0196 | | 75.7638 | 75.7638 | 1.7800e-003 | | 75.8084 |
| Total | 0.0442 | 0.2358 | 0.2946 | 1.5000e-003 | 0.0870 | 1.2000e-003 | 0.0882 | 0.0233 | 1.1400e-003 | 0.0244 | | 153.1672 | 153.1672 | 4.1600e-003 | | 153.2713 |

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | | 0.2995 | 0.2995 | | 0.2755 | 0.2755 | | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |
| Total | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | 0.5303 | 0.2995 | 0.8297 | 0.0573 | 0.2755 | 0.3328 | | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |

CHP Academy Drainage Channel - Yolo County, Summer

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0189 | 9.5700e-003 | 0.1290 | 3.8000e-004 | 4.4511 | 2.4000e-004 | 4.4513 | 0.4502 | 2.2000e-004 | 0.4504 | | 37.8819 | 37.8819 | 8.9000e-004 | | 37.9042 |
| Total | 0.0189 | 9.5700e-003 | 0.1290 | 3.8000e-004 | 4.4511 | 2.4000e-004 | 4.4513 | 0.4502 | 2.2000e-004 | 0.4504 | | 37.8819 | 37.8819 | 8.9000e-004 | | 37.9042 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | | 0.2995 | 0.2995 | | 0.2755 | 0.2755 | 0.0000 | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |
| Total | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | 0.5303 | 0.2995 | 0.8297 | 0.0573 | 0.2755 | 0.3328 | 0.0000 | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |

CHP Academy Drainage Channel - Yolo County, Summer

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0189 | 9.5700e-003 | 0.1290 | 3.8000e-004 | 0.0361 | 2.4000e-004 | 0.0363 | 9.6000e-003 | 2.2000e-004 | 9.8200e-003 | | 37.8819 | 37.8819 | 8.9000e-004 | | 37.9042 |
| Total | 0.0189 | 9.5700e-003 | 0.1290 | 3.8000e-004 | 0.0361 | 2.4000e-004 | 0.0363 | 9.6000e-003 | 2.2000e-004 | 9.8200e-003 | | 37.8819 | 37.8819 | 8.9000e-004 | | 37.9042 |

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3015 | 0.0000 | 6.3015 | 3.3456 | 0.0000 | 3.3456 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6327 | 25.2896 | 15.7670 | 0.0412 | | 1.1421 | 1.1421 | | 1.0508 | 1.0508 | | 3,986.1983 | 3,986.1983 | 1.2892 | | 4,018.4288 |
| Total | 2.6327 | 25.2896 | 15.7670 | 0.0412 | 6.3015 | 1.1421 | 7.4436 | 3.3456 | 1.0508 | 4.3963 | | 3,986.1983 | 3,986.1983 | 1.2892 | | 4,018.4288 |

CHP Academy Drainage Channel - Yolo County, Summer

3.4 Grading - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.2142 | 7.2703 | 1.2245 | 0.0248 | 53.8467 | 0.0244 | 53.8711 | 5.4609 | 0.0234 | 5.4843 | | 2,597.907 2 | 2,597.907 2 | 0.0800 | | 2,599.906 4 |
| 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 | 0.0491 | 0.0249 | 0.3355 | 9.9000e-004 | 11.5728 | 6.1000e-004 | 11.5734 | 1.1704 | 5.7000e-004 | 1.1710 | | 98.4929 | 98.4929 | 2.3200e-003 | | 98.5509 |
| Total | 0.2633 | 7.2952 | 1.5600 | 0.0258 | 65.4195 | 0.0250 | 65.4445 | 6.6313 | 0.0239 | 6.6553 | | 2,696.400 1 | 2,696.400 1 | 0.0823 | | 2,698.457 3 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3015 | 0.0000 | 6.3015 | 3.3456 | 0.0000 | 3.3456 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6327 | 25.2896 | 15.7670 | 0.0412 | | 1.1421 | 1.1421 | | 1.0508 | 1.0508 | 0.0000 | 3,986.198 3 | 3,986.198 3 | 1.2892 | | 4,018.428 8 |
| Total | 2.6327 | 25.2896 | 15.7670 | 0.0412 | 6.3015 | 1.1421 | 7.4436 | 3.3456 | 1.0508 | 4.3963 | 0.0000 | 3,986.198 3 | 3,986.198 3 | 1.2892 | | 4,018.428 8 |

CHP Academy Drainage Channel - Yolo County, Summer

3.4 Grading - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.2142 | 7.2703 | 1.2245 | 0.0248 | 0.5009 | 0.0244 | 0.5253 | 0.1377 | 0.0234 | 0.1610 | | 2,597.907 2 | 2,597.907 2 | 0.0800 | | 2,599.906 4 |
| 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 | 0.0491 | 0.0249 | 0.3355 | 9.9000e-004 | 0.0937 | 6.1000e-004 | 0.0944 | 0.0250 | 5.7000e-004 | 0.0255 | | 98.4929 | 98.4929 | 2.3200e-003 | | 98.5509 |
| Total | 0.2633 | 7.2952 | 1.5600 | 0.0258 | 0.5946 | 0.0250 | 0.6196 | 0.1627 | 0.0239 | 0.1866 | | 2,696.400 1 | 2,696.400 1 | 0.0823 | | 2,698.457 3 |

3.5 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0461 | 10.9992 | 8.8390 | 0.0150 | | 0.5878 | 0.5878 | | 0.5408 | 0.5408 | | 1,456.600 6 | 1,456.600 6 | 0.4711 | | 1,468.377 9 |
| Total | 1.0461 | 10.9992 | 8.8390 | 0.0150 | | 0.5878 | 0.5878 | | 0.5408 | 0.5408 | | 1,456.600 6 | 1,456.600 6 | 0.4711 | | 1,468.377 9 |

CHP Academy Drainage Channel - Yolo County, Summer

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0378 | 0.0191 | 0.2581 | 7.6000e-004 | 8.9022 | 4.7000e-004 | 8.9027 | 0.9003 | 4.4000e-004 | 0.9008 | | 75.7638 | 75.7638 | 1.7800e-003 | | 75.8084 |
| Total | 0.0378 | 0.0191 | 0.2581 | 7.6000e-004 | 8.9022 | 4.7000e-004 | 8.9027 | 0.9003 | 4.4000e-004 | 0.9008 | | 75.7638 | 75.7638 | 1.7800e-003 | | 75.8084 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0461 | 10.9992 | 8.8390 | 0.0150 | | 0.5878 | 0.5878 | | 0.5408 | 0.5408 | 0.0000 | 1,456.6006 | 1,456.6006 | 0.4711 | | 1,468.3779 |
| Total | 1.0461 | 10.9992 | 8.8390 | 0.0150 | | 0.5878 | 0.5878 | | 0.5408 | 0.5408 | 0.0000 | 1,456.6006 | 1,456.6006 | 0.4711 | | 1,468.3779 |

CHP Academy Drainage Channel - Yolo County, Summer

3.5 Building Construction - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0378 | 0.0191 | 0.2581 | 7.6000e-004 | 0.0721 | 4.7000e-004 | 0.0726 | 0.0192 | 4.4000e-004 | 0.0196 | | 75.7638 | 75.7638 | 1.7800e-003 | | 75.8084 |
| Total | 0.0378 | 0.0191 | 0.2581 | 7.6000e-004 | 0.0721 | 4.7000e-004 | 0.0726 | 0.0192 | 4.4000e-004 | 0.0196 | | 75.7638 | 75.7638 | 1.7800e-003 | | 75.8084 |

3.6 Paving - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6818 | 6.7833 | 7.3538 | 0.0111 | | 0.3691 | 0.3691 | | 0.3408 | 0.3408 | | 1,060.5661 | 1,060.5661 | 0.3319 | | 1,068.8640 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.6818 | 6.7833 | 7.3538 | 0.0111 | | 0.3691 | 0.3691 | | 0.3408 | 0.3408 | | 1,060.5661 | 1,060.5661 | 0.3319 | | 1,068.8640 |

CHP Academy Drainage Channel - Yolo County, Summer

3.6 Paving - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|----------------|--------------------|----------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0263 | 1.0370 | 0.1650 | 2.7400e-003 | 6.2430 | 2.3200e-003 | 6.2453 | 0.6347 | 2.2200e-003 | 0.6370 | | 286.6225 | 286.6225 | 0.0129 | | 286.9458 |
| Worker | 0.0755 | 0.0383 | 0.5162 | 1.5200e-003 | 17.8044 | 9.4000e-004 | 17.8053 | 1.8007 | 8.7000e-004 | 1.8015 | | 151.5275 | 151.5275 | 3.5700e-003 | | 151.6167 |
| Total | 0.1019 | 1.0753 | 0.6812 | 4.2600e-003 | 24.0474 | 3.2600e-003 | 24.0506 | 2.4354 | 3.0900e-003 | 2.4385 | | 438.1500 | 438.1500 | 0.0165 | | 438.5626 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6818 | 6.7833 | 7.3538 | 0.0111 | | 0.3691 | 0.3691 | | 0.3408 | 0.3408 | 0.0000 | 1,060.5661 | 1,060.5661 | 0.3319 | | 1,068.8640 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.6818 | 6.7833 | 7.3538 | 0.0111 | | 0.3691 | 0.3691 | | 0.3408 | 0.3408 | 0.0000 | 1,060.5661 | 1,060.5661 | 0.3319 | | 1,068.8640 |

CHP Academy Drainage Channel - Yolo County, Summer

3.6 Paving - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0263 | 1.0370 | 0.1650 | 2.7400e-003 | 0.0620 | 2.3200e-003 | 0.0643 | 0.0180 | 2.2200e-003 | 0.0202 | | 286.6225 | 286.6225 | 0.0129 | | 286.9458 |
| Worker | 0.0755 | 0.0383 | 0.5162 | 1.5200e-003 | 0.1442 | 9.4000e-004 | 0.1452 | 0.0384 | 8.7000e-004 | 0.0393 | | 151.5275 | 151.5275 | 3.5700e-003 | | 151.6167 |
| Total | 0.1019 | 1.0753 | 0.6812 | 4.2600e-003 | 0.2062 | 3.2600e-003 | 0.2094 | 0.0564 | 3.0900e-003 | 0.0594 | | 438.1500 | 438.1500 | 0.0165 | | 438.5626 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

CHP Academy Drainage Channel - Yolo County, Summer

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Other Non-Asphalt Surfaces | 10.00 | 5.00 | 7.00 | 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 |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Non-Asphalt Surfaces | 0.492305 | 0.039568 | 0.208718 | 0.119283 | 0.022760 | 0.005403 | 0.060505 | 0.041350 | 0.001014 | 0.001744 | 0.005799 | 0.000759 | 0.000791 |

5.0 Energy Detail

Historical Energy Use: N

CHP Academy Drainage Channel - Yolo County, Summer

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

CHP Academy Drainage Channel - Yolo County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Unmitigated | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |

CHP Academy Drainage Channel - Yolo County, Summer

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.0217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0673 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 1.8100e-003 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Total | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.0217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0673 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 1.8100e-003 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Total | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |

7.0 Water Detail

CHP Academy Drainage Channel - Yolo County, Summer

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**

| 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

CHP Academy Drainage Channel - Yolo County, Winter

CHP Academy Drainage Channel
Yolo County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|--------|----------|-------------|--------------------|------------|
| Other Non-Asphalt Surfaces | 190.00 | 1000sqft | 4.36 | 190,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 6.8 | Precipitation Freq (Days) | 54 |
| Climate Zone | 2 | | | Operational Year | 2022 |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 641.35 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

CHP Academy Drainage Channel - Yolo County, Winter

Project Characteristics -

Land Use -

Construction Phase - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback. Off-Highway Trucks = Dumptrucks

Off-road Equipment - Based on Data Needs Feedback

Off-road Equipment - Based on Data Needs Feedback

Trips and VMT - Based on Data Needs Feedback

Demolition - Removal of pavement and culverts

Grading - Based on Project Description. Material import includes rip-rap, gravel, and concrete. volume increased to reflect smaller volumes of concrete per hauling trip.

Area Coating -

| Table Name | Column Name | Default Value | New Value |
|----------------------|----------------------------|---------------|-----------|
| tblConstructionPhase | NumDays | 5.00 | 3.00 |
| tblConstructionPhase | NumDays | 8.00 | 29.00 |
| tblConstructionPhase | NumDays | 230.00 | 16.00 |
| tblConstructionPhase | NumDays | 18.00 | 44.00 |
| tblGrading | AcresOfGrading | 0.00 | 4.40 |
| tblGrading | MaterialExported | 0.00 | 6,000.00 |
| tblGrading | MaterialImported | 0.00 | 1,008.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

CHP Academy Drainage Channel - Yolo County, Winter

| | | | |
|---------------------|----------------------------|-------|-------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblTripsAndVMT | VendorTripNumber | 31.00 | 0.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 10.00 |
| tblTripsAndVMT | WorkerTripNumber | 80.00 | 10.00 |
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 20.00 |

2.0 Emissions Summary

CHP Academy Drainage Channel - Yolo County, Winter

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|---------------|---------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | 0.0000 | 7.0000e-005 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | 0.0000 | 0.0443 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|---------------|---------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | 0.0000 | 7.0000e-005 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | 0.0000 | 0.0443 |

CHP Academy Drainage Channel - Yolo County, Winter

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/18/2021 | 2/12/2021 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 2/13/2021 | 2/17/2021 | 5 | 3 | |
| 3 | Grading | Grading | 2/18/2021 | 3/30/2021 | 5 | 29 | |
| 4 | Building Construction | Building Construction | 4/1/2021 | 4/22/2021 | 5 | 16 | |
| 5 | Paving | Paving | 4/23/2021 | 6/23/2021 | 5 | 44 | |

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 4.4

Acres of Paving: 4.36

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

OffRoad Equipment

CHP Academy Drainage Channel - Yolo County, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Grading | Excavators | 0 | 8.00 | 158 | 0.38 |
| Grading | Graders | 0 | 8.00 | 187 | 0.41 |
| Grading | Off-Highway Trucks | 2 | 8.00 | 402 | 0.38 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 0 | 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 | 0 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

Trips and VMT

CHP Academy Drainage Channel - Yolo County, Winter

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 4 | 10.00 | 0.00 | 18.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 5 | 13.00 | 0.00 | 876.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 10.00 | 0.00 | 0.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 4 | 20.00 | 10.00 | 0.00 | 10.00 | 7.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.2256 | 0.0000 | 0.2256 | 0.0342 | 0.0000 | 0.0342 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.8057 | 17.8008 | 12.2323 | 0.0210 | | 0.9291 | 0.9291 | | 0.8686 | 0.8686 | | 2,021.8170 | 2,021.8170 | 0.4966 | | 2,034.2328 |
| Total | 1.8057 | 17.8008 | 12.2323 | 0.0210 | 0.2256 | 0.9291 | 1.1547 | 0.0342 | 0.8686 | 0.9028 | | 2,021.8170 | 2,021.8170 | 0.4966 | | 2,034.2328 |

CHP Academy Drainage Channel - Yolo County, Winter

3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|----------------|--------------------|----------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 6.6000e-003 | 0.2242 | 0.0406 | 7.3000e-004 | 1.6043 | 7.5000e-004 | 1.6051 | 0.1627 | 7.1000e-004 | 0.1634 | | 75.9921 | 75.9921 | 2.6700e-003 | | 76.0588 |
| 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 | 0.0350 | 0.0238 | 0.2263 | 6.7000e-004 | 8.9022 | 4.7000e-004 | 8.9027 | 0.9003 | 4.4000e-004 | 0.9008 | | 66.8777 | 66.8777 | 1.5900e-003 | | 66.9175 |
| Total | 0.0416 | 0.2481 | 0.2669 | 1.4000e-003 | 10.5065 | 1.2200e-003 | 10.5077 | 1.0630 | 1.1500e-003 | 1.0642 | | 142.8698 | 142.8698 | 4.2600e-003 | | 142.9763 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.2256 | 0.0000 | 0.2256 | 0.0342 | 0.0000 | 0.0342 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.8057 | 17.8008 | 12.2323 | 0.0210 | | 0.9291 | 0.9291 | | 0.8686 | 0.8686 | 0.0000 | 2,021.8170 | 2,021.8170 | 0.4966 | | 2,034.2328 |
| Total | 1.8057 | 17.8008 | 12.2323 | 0.0210 | 0.2256 | 0.9291 | 1.1547 | 0.0342 | 0.8686 | 0.9028 | 0.0000 | 2,021.8170 | 2,021.8170 | 0.4966 | | 2,034.2328 |

CHP Academy Drainage Channel - Yolo County, Winter

3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 6.6000e-003 | 0.2242 | 0.0406 | 7.3000e-004 | 0.0149 | 7.5000e-004 | 0.0157 | 4.1000e-003 | 7.1000e-004 | 4.8200e-003 | | 75.9921 | 75.9921 | 2.6700e-003 | | 76.0588 |
| 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 | 0.0350 | 0.0238 | 0.2263 | 6.7000e-004 | 0.0721 | 4.7000e-004 | 0.0726 | 0.0192 | 4.4000e-004 | 0.0196 | | 66.8777 | 66.8777 | 1.5900e-003 | | 66.9175 |
| Total | 0.0416 | 0.2481 | 0.2669 | 1.4000e-003 | 0.0870 | 1.2200e-003 | 0.0883 | 0.0233 | 1.1500e-003 | 0.0245 | | 142.8698 | 142.8698 | 4.2600e-003 | | 142.9763 |

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | | 0.2995 | 0.2995 | | 0.2755 | 0.2755 | | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |
| Total | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | 0.5303 | 0.2995 | 0.8297 | 0.0573 | 0.2755 | 0.3328 | | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |

CHP Academy Drainage Channel - Yolo County, Winter

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0175 | 0.0119 | 0.1132 | 3.4000e-004 | 4.4511 | 2.4000e-004 | 4.4513 | 0.4502 | 2.2000e-004 | 0.4504 | | 33.4388 | 33.4388 | 8.0000e-004 | | 33.4588 |
| Total | 0.0175 | 0.0119 | 0.1132 | 3.4000e-004 | 4.4511 | 2.4000e-004 | 4.4513 | 0.4502 | 2.2000e-004 | 0.4504 | | 33.4388 | 33.4388 | 8.0000e-004 | | 33.4588 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | | 0.2995 | 0.2995 | | 0.2755 | 0.2755 | 0.0000 | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |
| Total | 0.6403 | 7.8204 | 4.0274 | 9.7300e-003 | 0.5303 | 0.2995 | 0.8297 | 0.0573 | 0.2755 | 0.3328 | 0.0000 | 942.5842 | 942.5842 | 0.3049 | | 950.2055 |

CHP Academy Drainage Channel - Yolo County, Winter

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0175 | 0.0119 | 0.1132 | 3.4000e-004 | 0.0361 | 2.4000e-004 | 0.0363 | 9.6000e-003 | 2.2000e-004 | 9.8200e-003 | | 33.4388 | 33.4388 | 8.0000e-004 | | 33.4588 |
| Total | 0.0175 | 0.0119 | 0.1132 | 3.4000e-004 | 0.0361 | 2.4000e-004 | 0.0363 | 9.6000e-003 | 2.2000e-004 | 9.8200e-003 | | 33.4388 | 33.4388 | 8.0000e-004 | | 33.4588 |

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3015 | 0.0000 | 6.3015 | 3.3456 | 0.0000 | 3.3456 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6327 | 25.2896 | 15.7670 | 0.0412 | | 1.1421 | 1.1421 | | 1.0508 | 1.0508 | | 3,986.1983 | 3,986.1983 | 1.2892 | | 4,018.4288 |
| Total | 2.6327 | 25.2896 | 15.7670 | 0.0412 | 6.3015 | 1.1421 | 7.4436 | 3.3456 | 1.0508 | 4.3963 | | 3,986.1983 | 3,986.1983 | 1.2892 | | 4,018.4288 |

CHP Academy Drainage Channel - Yolo County, Winter

3.4 Grading - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.2214 | 7.5260 | 1.3621 | 0.0243 | 53.8467 | 0.0251 | 53.8718 | 5.4609 | 0.0240 | 5.4849 | | 2,550.5401 | 2,550.5401 | 0.0895 | | 2,552.7769 |
| 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 | 0.0455 | 0.0310 | 0.2942 | 8.7000e-004 | 11.5728 | 6.1000e-004 | 11.5734 | 1.1704 | 5.7000e-004 | 1.1710 | | 86.9410 | 86.9410 | 2.0700e-003 | | 86.9928 |
| Total | 0.2669 | 7.5570 | 1.6563 | 0.0252 | 65.4195 | 0.0257 | 65.4452 | 6.6313 | 0.0246 | 6.6559 | | 2,637.4811 | 2,637.4811 | 0.0915 | | 2,639.7697 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3015 | 0.0000 | 6.3015 | 3.3456 | 0.0000 | 3.3456 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6327 | 25.2896 | 15.7670 | 0.0412 | | 1.1421 | 1.1421 | | 1.0508 | 1.0508 | 0.0000 | 3,986.1983 | 3,986.1983 | 1.2892 | | 4,018.4288 |
| Total | 2.6327 | 25.2896 | 15.7670 | 0.0412 | 6.3015 | 1.1421 | 7.4436 | 3.3456 | 1.0508 | 4.3963 | 0.0000 | 3,986.1983 | 3,986.1983 | 1.2892 | | 4,018.4288 |

CHP Academy Drainage Channel - Yolo County, Winter

3.4 Grading - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.2214 | 7.5260 | 1.3621 | 0.0243 | 0.5009 | 0.0251 | 0.5259 | 0.1377 | 0.0240 | 0.1617 | | 2,550.540 1 | 2,550.540 1 | 0.0895 | | 2,552.776 9 |
| 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 | 0.0455 | 0.0310 | 0.2942 | 8.7000e-004 | 0.0937 | 6.1000e-004 | 0.0944 | 0.0250 | 5.7000e-004 | 0.0255 | | 86.9410 | 86.9410 | 2.0700e-003 | | 86.9928 |
| Total | 0.2669 | 7.5570 | 1.6563 | 0.0252 | 0.5946 | 0.0257 | 0.6203 | 0.1627 | 0.0246 | 0.1872 | | 2,637.481 1 | 2,637.481 1 | 0.0915 | | 2,639.769 7 |

3.5 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0461 | 10.9992 | 8.8390 | 0.0150 | | 0.5878 | 0.5878 | | 0.5408 | 0.5408 | | 1,456.600 6 | 1,456.600 6 | 0.4711 | | 1,468.377 9 |
| Total | 1.0461 | 10.9992 | 8.8390 | 0.0150 | | 0.5878 | 0.5878 | | 0.5408 | 0.5408 | | 1,456.600 6 | 1,456.600 6 | 0.4711 | | 1,468.377 9 |

CHP Academy Drainage Channel - Yolo County, Winter

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0350 | 0.0238 | 0.2263 | 6.7000e-004 | 8.9022 | 4.7000e-004 | 8.9027 | 0.9003 | 4.4000e-004 | 0.9008 | | 66.8777 | 66.8777 | 1.5900e-003 | | 66.9175 |
| Total | 0.0350 | 0.0238 | 0.2263 | 6.7000e-004 | 8.9022 | 4.7000e-004 | 8.9027 | 0.9003 | 4.4000e-004 | 0.9008 | | 66.8777 | 66.8777 | 1.5900e-003 | | 66.9175 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0461 | 10.9992 | 8.8390 | 0.0150 | | 0.5878 | 0.5878 | | 0.5408 | 0.5408 | 0.0000 | 1,456.6006 | 1,456.6006 | 0.4711 | | 1,468.3779 |
| Total | 1.0461 | 10.9992 | 8.8390 | 0.0150 | | 0.5878 | 0.5878 | | 0.5408 | 0.5408 | 0.0000 | 1,456.6006 | 1,456.6006 | 0.4711 | | 1,468.3779 |

CHP Academy Drainage Channel - Yolo County, Winter

3.5 Building Construction - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0350 | 0.0238 | 0.2263 | 6.7000e-004 | 0.0721 | 4.7000e-004 | 0.0726 | 0.0192 | 4.4000e-004 | 0.0196 | | 66.8777 | 66.8777 | 1.5900e-003 | | 66.9175 |
| Total | 0.0350 | 0.0238 | 0.2263 | 6.7000e-004 | 0.0721 | 4.7000e-004 | 0.0726 | 0.0192 | 4.4000e-004 | 0.0196 | | 66.8777 | 66.8777 | 1.5900e-003 | | 66.9175 |

3.6 Paving - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6818 | 6.7833 | 7.3538 | 0.0111 | | 0.3691 | 0.3691 | | 0.3408 | 0.3408 | | 1,060.5661 | 1,060.5661 | 0.3319 | | 1,068.8640 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.6818 | 6.7833 | 7.3538 | 0.0111 | | 0.3691 | 0.3691 | | 0.3408 | 0.3408 | | 1,060.5661 | 1,060.5661 | 0.3319 | | 1,068.8640 |

CHP Academy Drainage Channel - Yolo County, Winter

3.6 Paving - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|----------------|--------------------|----------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0279 | 1.0496 | 0.1988 | 2.6600e-003 | 6.2430 | 2.4500e-003 | 6.2455 | 0.6347 | 2.3400e-003 | 0.6371 | | 278.4491 | 278.4491 | 0.0147 | | 278.8153 |
| Worker | 0.0700 | 0.0476 | 0.4526 | 1.3400e-003 | 17.8044 | 9.4000e-004 | 17.8053 | 1.8007 | 8.7000e-004 | 1.8015 | | 133.7553 | 133.7553 | 3.1900e-003 | | 133.8351 |
| Total | 0.0979 | 1.0972 | 0.6514 | 4.0000e-003 | 24.0474 | 3.3900e-003 | 24.0508 | 2.4354 | 3.2100e-003 | 2.4386 | | 412.2045 | 412.2045 | 0.0178 | | 412.6504 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6818 | 6.7833 | 7.3538 | 0.0111 | | 0.3691 | 0.3691 | | 0.3408 | 0.3408 | 0.0000 | 1,060.5661 | 1,060.5661 | 0.3319 | | 1,068.8640 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.6818 | 6.7833 | 7.3538 | 0.0111 | | 0.3691 | 0.3691 | | 0.3408 | 0.3408 | 0.0000 | 1,060.5661 | 1,060.5661 | 0.3319 | | 1,068.8640 |

CHP Academy Drainage Channel - Yolo County, Winter

3.6 Paving - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Vendor | 0.0279 | 1.0496 | 0.1988 | 2.6600e-003 | 0.0620 | 2.4500e-003 | 0.0644 | 0.0180 | 2.3400e-003 | 0.0203 | | 278.4491 | 278.4491 | 0.0147 | | | 278.8153 |
| Worker | 0.0700 | 0.0476 | 0.4526 | 1.3400e-003 | 0.1442 | 9.4000e-004 | 0.1452 | 0.0384 | 8.7000e-004 | 0.0393 | | 133.7553 | 133.7553 | 3.1900e-003 | | | 133.8351 |
| Total | 0.0979 | 1.0972 | 0.6514 | 4.0000e-003 | 0.2062 | 3.3900e-003 | 0.2096 | 0.0564 | 3.2100e-003 | 0.0596 | | 412.2045 | 412.2045 | 0.0178 | | | 412.6504 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

CHP Academy Drainage Channel - Yolo County, Winter

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

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Other Non-Asphalt Surfaces | 10.00 | 5.00 | 7.00 | 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 |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Non-Asphalt Surfaces | 0.492305 | 0.039568 | 0.208718 | 0.119283 | 0.022760 | 0.005403 | 0.060505 | 0.041350 | 0.001014 | 0.001744 | 0.005799 | 0.000759 | 0.000791 |

5.0 Energy Detail

Historical Energy Use: N

CHP Academy Drainage Channel - Yolo County, Winter

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

CHP Academy Drainage Channel - Yolo County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Unmitigated | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |

CHP Academy Drainage Channel - Yolo County, Winter

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.0217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0673 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 1.8100e-003 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Total | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.0217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0673 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 1.8100e-003 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |
| Total | 0.0908 | 1.8000e-004 | 0.0194 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 0.0416 | 0.0416 | 1.1000e-004 | | 0.0443 |

7.0 Water Detail

CHP Academy Drainage Channel - Yolo County, Winter

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**

| 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