

Appendix B

Air Quality and Greenhouse Gas Emissions Calculations

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Air Quality, Greenhouse Gas, and Energy Inputs

The California Emissions Estimator Model (CalEEMod) was used to estimate project-generated construction criteria air pollutant and GHG emissions. Key inputs for each component modeled included: project schedule (start and end date), phasing (phase type and sequencing), vehicle trips (workers, vendor trucks, and haul trucks), import/export quantities, and equipment (type, quantity, and usage).

Project construction activities would generally include the following phases: (1) access road improvements, site preparation, and mobilization; (2) cofferdam and temporary stream bypass system; (3) Coanda screen intake structure including dam preparation, foundation work, and concrete formwork and installation of the intake screen, piping, and valves; (4) modifications to the existing intake and sediment control valves; (5) valve vault installation; (6) electrical installations; (7) access stairs and riprap apron; and (8) startup and testing, site restoration, and construction closeout.

- **Construction hours:** 7 a.m. to 5 p.m. on weekdays
- **Duration:** Approximately 3 months
- **Timing:** Between June 1, 2021 to October 1, 2021

Construction Assumptions

Table 1. Construction Equipment List

Offroad Equipment Type	Horsepower	Load Factor
Aerial Lifts	63	0.31
Air Compressors	78	0.48
Bore/Drill Rigs	221	0.50
Cement and Mortar Mixers	9	0.56
Concrete/Industrial Saws	81	0.73
Dumpers/Tenders	16	0.38
Excavators	50	0.38
Forklifts	89	0.20
Generator Sets	84	0.74
Graders	187	0.41
Off-Highway Tractors	124	0.44
Off-Highway Trucks	402	0.38
Other Construction Equipment	172	0.42
Other General Industrial Equipment	88	0.34
Other Material Handling Equipment	168	0.40
Plate Compactors	8	0.43
Pressure Washers	13	0.30
Pumps	84	0.74
Rough Terrain Forklifts	100	0.40
Rubber Tired Loaders	203	0.36
Tractors/Loaders/Backhoes	97	0.37
Welders	46	0.45

Table 2. Construction Scenario Assumptions

Potential Construction Phase	Start Date	Finish Date	One-Way Vehicle Trips			Equipment		
			Average Daily Workers	Average Daily Vendor Trucks	Total Haul Trucks	Type	Quantity	Usage Hours
Access Road Improvements, Site Preparation, and Mobilization								
Site Preparation – Clear and Grub and Mobilization	3-Aug-21	10-Aug-21	3 to 5	<1	2	Excavators	1	8
						Tractors/Loaders/Backhoes	1	8
Grading	3-Aug-21	10-Aug-21	1	<1	7	Graders	1	8
Cofferdam and Temporary Stream Bypass System								
Cofferdams Installation	10-Aug-21	31-Aug-21	3 to 5	<1	0	Tractors/Loaders/Backhoes	1	8
Pipe Installation	7-Sep-21	4-Oct-21	3 to 5	<1	0	Excavators	1	8
						Pumps	1	8
						Tractors/Loaders/Backhoes	1	8
(Installation of Dewatering and Leakage Control Pump Systems)	25-Aug-21	31-Aug-21	1	<1	0	Pumps	2	8
						Generator Sets	4	8
						Tractors/Loaders/Backhoes	1	8
						Welders	1	8
New Coanda Screen Intake and Valve Vault Structures								
Excavation	7-Sep-21	16-Sep-21	1	<1	4	Excavators	1	8
						Tractors/Loaders/Backhoes	1	8
Doweling and Anchorage	7-Sep-21	16-Sep-21	1	<1	0	Bore/Drill Rig	1	8
(Installation of Rebar and Pouring concrete)	7-Sep-21	16-Sep-21	3 to 5	<1	10	Excavator	1	8
						Cement and Mortar Mixers	1	8
						Line Pumps	1	8

Table 2. Construction Scenario Assumptions

Potential Construction Phase	Start Date	Finish Date	One-Way Vehicle Trips			Equipment		
			Average Daily Workers	Average Daily Vendor Trucks	Total Haul Trucks	Type	Quantity	Usage Hours
Installation of Coanda Screen and Valve Vault	16-Sep-21	21-Sep-21	1	<1	1	Excavator	1	8
						Cement and Mortar Mixers	1	8
						Tractors/Loaders/Backhoes	1	8
Diversion Pipeline Installation	24-Sep-21	4-Oct-21	2 to 4	<1	0	Concrete/Industrial Saws	1	8
						Excavators	1	8
						Forklifts	1	8
						Pumps	1	8
						Tractors/Loaders/Backhoes	1	8
Modifications to Existing Intake and Sediment Control Values								
Pipe Installation	24-Sep-21	4-Oct-21	1 to 2	<1	0	Concrete/Industrial Saws	1	8
						Excavators	1	8
						Tractors/Loaders/Backhoes	1	8
Backfill Structure	4-Oct-21	13-Oct-21	2 to 3	<1	6	Cement and Mortar Mixers	1	8
						Concrete/Industrial Saws	1	8
Electrical Installations								
Electrical Conduit Installation	16-Sep-21	4-Oct-21	1	1	0	Concrete/Industrial Saws	1	8
						Excavators	1	8
						Forklifts	1	8
						Pumps	1	8
						Tractors/Loaders/Backhoes	1	8
Access Stairs and Riprap Apron								
Access Stairs	31-Aug-21	21-Sep-21	3 to 4	1	2	Cement and Mortar Mixers	1	8

Table 2. Construction Scenario Assumptions

<i>Potential Construction Phase</i>	<i>Start Date</i>	<i>Finish Date</i>	<i>One-Way Vehicle Trips</i>			<i>Equipment</i>		
			<i>Average Daily Workers</i>	<i>Average Daily Vendor Trucks</i>	<i>Total Haul Trucks</i>	<i>Type</i>	<i>Quantity</i>	<i>Usage Hours</i>
Install Riprap	24-Sep-21	13-Oct-21	3 to 4	1	3	Tractors/Loaders/Backhoes	1	8
Startup and Testing, Site Restoration, and Construction Closeout								
Start Up and Testing	4-Oct-21	13-Oct-21	2 to 3	<1	0	Generator Sets	1	8
Site Restoration	11-Oct-21	18-Oct-21	2 to 3	<1	0	Tractors/Loaders/Backhoes	1	8
Site Cleanup	11-Oct-21	18-Oct-21	2 to 3	<1	0	Tractors/Loaders/Backhoes	1	8

Access Road Improvements, Site Preparation, and Mobilization

- Three private, unpaved roads on the site may be improved to allow access of equipment to the site, which may entail limited tree removal to accommodate road widening, grading, compaction, and placement of aggregate
- Total area graded/disturbed: 30 cubic yards
- Quantities of cut and fill; import and export (tons or cubic yards): Road rock 75 tons, off haul root balls 20 cubic yards
- Distance of hauled import for materials: 20 miles one-way assumed; assumptions used for haul import for phases below as well
- Distance of hauled export for materials: City of Santa Cruz Resource Recovery Facility (landfill) at 650 Dimeo Lane in Santa Cruz (10 miles); used for haul export for phases below as well

Cofferdam and Temporary Stream Bypass System

- System would consist of two cofferdams—one installed upstream and one downstream of the dam consisting of—and a 12-inch-diameter, approximately 240-foot-long bypass pipe
- Dewatering and leakage control pump systems would be installed in the construction work areas. Between the upstream cofferdam and the dam, a sump pit would be excavated to at least 1 foot below the lowest excavation point which would be in front of the existing intake structure so that the construction area could be isolated from the flowing creek
- Quantities of cut and fill; import and export (tons or cubic yards): Based on a reasonable angle of repose starting approximately 20 feet away and 3 feet deep from the above-mentioned areas, an estimated 34 cubic yards of sediment would need to be removed

New Coanda Screen Intake Structure

- Excavation of stream materials upstream and downstream of the dam to allow the dam to be notched as well as the bedrock to be exposed
- Anchoring of the structure's foundation to the bedrock and dam
- Installation of rebar and pouring concrete for the structure
 - Total concrete placement is expected to be approximately 40 cubic yards
- Placement of the Coanda screen and other intake components
- The design criteria used for the Coanda screen are based on Appendix S of the California Salmonid Stream Habitat Restoration Manual, Fish Screen Criteria from the California Department of Fish and Game, June 19, 2000 version. The Fish Screen Criteria include considerations for structure placement, approach velocity, sweeping velocity, screen openings and porosity, and screen construction. The criterion would be applied to the Proposed Project and implemented as required during project permitting with CDFW

Modifications to Existing Intake and Sediment Control Values

- The existing intake structure would be closed and abandoned in place and a pipe for emergency diversion would be installed before the structure is backfilled with concrete
 - Pipe length (linear feet) and width: 24-inch diameter , 25 feet long
- A temporary formwork would be installed at the face of the intake and concrete to be cast inside the structure so it ends up with a solid concrete face (width 15-feet × height 4.5 feet) when the form is stripped
- Holes would be drilled in the existing intake structure to fill the void space with 33 cubic yards of concrete
- Quantity of demolished/removed material to be exported (tons): 5 cubic yards
- Quantities of cut and fill; import and export (tons or cubic yards): 5 cubic yards

Valve Vault Installation

- The valve vault would be embedded into the streambank near the new intake but would be exposed or visible on the stream channel side
- The foundation would have a stem wall configuration and the vault and its foundation would be cast in place
- The foundation would be anchored to bedrock with rebar
 - Total concrete placement is expected to be 22 cubic yards
- Blowoff drain that would connect to the bottom of the Coanda collection chamber and piping and valves would be installed
- New diversion piping with diversion butterfly valve would be connected to the Coanda collection chamber and extend parallel past the existing diversion flume to the existing Laguna Pipeline where it would connect to the transmission pipeline via the pre-cast drop inlet
 - Need pipe length (linear feet) and width: 18-inch diameter, approximately 120 feet
- After vault construction is complete, valve stems, pedestals, and electric actuators installed

Laguna Creek Diversion Retrofit Project EIR Technical Data Needs and Assumptions

- A sump pump with grating and discharge piping, aluminum hatch for the vault, and handrails would be installed
- The space between the new valve vault and the existing covered diversion flume would be backfilled with controlled low strength material
 - Approximately 6 cubic yards of material

Electrical Installations

- Conduits from the existing control building to the valve vault followed by installation of the required electrical and communication panels
 - Conduit length: 120 linear feet
- New lighting and grounding would also be installed as required

Access Stairs and Riprap Apron

- A stairway would be installed from the downstream pool up to the top of the valve vault
 - 5 cubic yards of concrete would be needed for the stairs
- Riprap apron would be installed and along the streambank where slope protection is required
 - 30 cubic yards of material

Startup and Testing, Site Restoration, and Construction Closeout

- Final erosion control BMPs would be installed
- The cofferdam and bypass system would be removed
- Demobilization of temporary facilities
- Replanting and irrigation as needed

LCDR - Monterey Bay Unified APCD Air District, Annual

LCDR**Monterey Bay Unified APCD Air District, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	2.10	Acre	2.10	91,476.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.8	Precipitation Freq (Days)	54
Climate Zone	5			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

Construction Phase - Construction phasing information provided by the project applicant.

Land Use - Project land use information provided by the project applicant.

Construction Phase - Construction phasing information provided by the project applicant.

Off-road Equipment - Off-road equipment information provided by the project applicant.

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Trips and VMT - Construction trip information provided by the project applicant

Fleet Mix - CalEEMod Defaults.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	150	0
tblAreaCoating	Area_Parking	5489	0
tblConstructionPhase	NumDays	6.00	9.00
tblConstructionPhase	NumDays	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	PrecipitationFrequency	53	54
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00

tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	2.00

2.0 Emissions Summary

2.1 Overall Construction
Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0574	0.5018	0.6052	1.0600e-003	8.3300e-003	0.0265	0.0348	1.9700e-003	0.0254	0.0274	0.0000	91.8008	91.8008	0.0163	0.0000	92.2076
Maximum	0.0574	0.5018	0.6052	1.0600e-003	8.3300e-003	0.0265	0.0348	1.9700e-003	0.0254	0.0274	0.0000	91.8008	91.8008	0.0163	0.0000	92.2076

Mitigated Construction

[illegible][illegible]

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-2-2021	9-30-2021	0.3833	0.3833
		Highest	0.3833	0.3833

2.2 Overall Operational

Unmitigated Operational

[illegible]

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	5.9200e-003	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005

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	5.9200e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
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	5.9200e-003	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005

	ROG	NOx	CO	SO2	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	Sit Preperation - Access Road	Site Preparation	8/3/2021	8/10/2021	5	6	
2	Grading - Access Road	Grading	8/3/2021	8/10/2021	5	6	

3	Cofferdams Installation	Grading	8/11/2021	8/23/2021	5	9
4	Installation of Control Systems	Trenching	8/25/2021	8/31/2021	5	5
5	Access Stairs	Trenching	8/31/2021	9/21/2021	5	16
6	Vault Structures: Excvation	Trenching	9/7/2021	9/16/2021	5	8
7	Vault Structures: Doweling and Anchorage	Trenching	9/7/2021	9/16/2021	5	8
8	Vault Structures: Concrete Pour	Trenching	9/7/2021	9/16/2021	5	8
9	Electrical Installation: Electrical conduit	Trenching	9/16/2021	10/4/2021	5	13
10	Pipe Installation	Trenching	9/17/2021	10/4/2021	5	12
11	Vault Structures: Coanda Screen	Trenching	9/17/2021	9/22/2021	5	4
12	Vault Structures: Diversion Pipeline	Trenching	9/24/2021	10/22/2021	5	21
13	Sediment Control: Pipe Installation	Trenching	9/24/2021	10/4/2021	5	7
14	Install Riprap	Trenching	9/24/2021	10/13/2021	5	14
15	Sediment Control: Backfill Structure	Trenching	10/4/2021	10/13/2021	5	8
16	Start up and Testing	Trenching	10/4/2021	10/19/2021	5	12

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Sit Preperation - Access Road	Excavators	1	8.00	158	0.38
Sit Preperation - Access Road	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading - Access Road	Graders	1	8.00	187	0.41
Cofferdams Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Installation of Control Systems	Generator Sets	4	8.00	84	0.74
Installation of Control Systems	Pumps	2	8.00	84	0.74
Installation of Control Systems	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Installation of Control Systems	Welders	1	8.00	46	0.45

Access Stairs	Cement and Mortar Mixers	1	8.00	9	0.56
Vault Structures: Excvation	Excavators	1	8.00	158	0.38
Vault Structures: Excvation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Vault Structures: Doweling and Anchorage	Bore/Drill Rigs	1	8.00	221	0.50
Vault Structures: Concrete Pour	Cement and Mortar Mixers	1	8.00	9	0.56
Vault Structures: Concrete Pour	Excavators	1	8.00	158	0.38
Vault Structures: Concrete Pour	Pumps	1	8.00	84	0.74
Electrical Installation: Electrical conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Electrical Installation: Electrical conduit	Excavators	1	8.00	158	0.38
Electrical Installation: Electrical conduit	Forklifts	1	8.00	89	0.20
Electrical Installation: Electrical conduit	Pumps	1	8.00	84	0.74
Electrical Installation: Electrical conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipe Installation	Excavators	1	8.00	158	0.38
Pipe Installation	Pumps	1	8.00	84	0.74
Pipe Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Vault Structures: Coanda Screen	Cement and Mortar Mixers	1	8.00	9	0.56
Vault Structures: Coanda Screen	Excavators	1	8.00	158	0.38
Vault Structures: Coanda Screen	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Vault Structures: Diversion Pipeline	Concrete/Industrial Saws	1	8.00	81	0.73
Vault Structures: Diversion Pipeline	Excavators	1	8.00	158	0.38
Vault Structures: Diversion Pipeline	Forklifts	1	8.00	89	0.20
Vault Structures: Diversion Pipeline	Pumps	1	8.00	84	0.74
Vault Structures: Diversion Pipeline	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Sediment Control: Pipe Installation	Concrete/Industrial Saws	1	8.00	81	0.73
Sediment Control: Pipe Installation	Excavators	1	8.00	158	0.38
Sediment Control: Pipe Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Install Riprap	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Sediment Control: Backfill Structure	Cement and Mortar Mixers	1	8.00	9	0.56
Sediment Control: Backfill Structure	Concrete/Industrial Saws	1	8.00	81	0.73
Start up and Testing	Generator Sets	1	8.00	84	0.74

Start up and Testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Sit Preperation - Access Road	2	10.00	0.00	4.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Access Road	1	2.00	0.00	14.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Cofferdams Installation	1	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Installation of Control Systems	8	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Access Stairs	1	8.00	0.00	4.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Excavation	2	2.00	0.00	8.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Doweling and	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Concrete Pour	3	10.00	0.00	20.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Electrical Installation: Electrical conduit	5	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipe Installation	3	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Coanda Screen	3	2.00	0.00	2.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Diversion Pipeline	5	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Sediment Control: Pipe Installation	3	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Install Riprap	1	8.00	0.00	6.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Sediment Control: Backfill Structure	2	6.00	0.00	12.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Start up and Testing	3	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Sit Preperation - Access Road - 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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2500e-003	0.0122	0.0166	2.0000e-005		6.5000e-004	6.5000e-004		6.0000e-004	6.0000e-004	0.0000	2.1802	2.1802	7.1000e-004	0.0000	2.1978
Total	1.2500e-003	0.0122	0.0166	2.0000e-005	0.0000	6.5000e-004	6.5000e-004	0.0000	6.0000e-004	6.0000e-004	0.0000	2.1802	2.1802	7.1000e-004	0.0000	2.1978

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	2.0000e-005	5.4000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1529	0.1529	1.0000e-005	0.0000	0.1531
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.6000e-004	1.4000e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3306	0.3306	1.0000e-005	0.0000	0.3309
Total	1.9000e-004	7.0000e-004	1.5000e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4835	0.4835	2.0000e-005	0.0000	0.4839

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2500e-003	0.0122	0.0166	2.0000e-005		6.5000e-004	6.5000e-004		6.0000e-004	6.0000e-004	0.0000	2.1802	2.1802	7.1000e-004	0.0000	2.1978

Total	1.2500e-003	0.0122	0.0166	2.0000e-005	0.0000	6.5000e-004	6.5000e-004	0.0000	6.0000e-004	6.0000e-004	0.0000	2.1802	2.1802	7.1000e-004	0.0000	2.1978
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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	2.0000e-005	5.4000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1529	0.1529	1.0000e-005	0.0000	0.1531
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.6000e-004	1.4000e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3306	0.3306	1.0000e-005	0.0000	0.3309
Total	1.9000e-004	7.0000e-004	1.5000e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4835	0.4835	2.0000e-005	0.0000	0.4839

3.3 Grading - Access Road - 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					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3600e-003	0.0178	5.3000e-003	2.0000e-005		5.6000e-004	5.6000e-004		5.2000e-004	5.2000e-004	0.0000	1.7464	1.7464	5.6000e-004	0.0000	1.7605
Total	1.3600e-003	0.0178	5.3000e-003	2.0000e-005	1.5900e-003	5.6000e-004	2.1500e-003	1.7000e-004	5.2000e-004	6.9000e-004	0.0000	1.7464	1.7464	5.6000e-004	0.0000	1.7605

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	5.0000e-005	1.8800e-003	3.4000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5352	0.5352	2.0000e-005	0.0000	0.5358
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	3.0000e-005	3.0000e-005	2.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0661	0.0661	0.0000	0.0000	0.0662
Total	8.0000e-005	1.9100e-003	6.2000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6014	0.6014	2.0000e-005	0.0000	0.6020

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					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3600e-003	0.0178	5.3000e-003	2.0000e-005		5.6000e-004	5.6000e-004		5.2000e-004	5.2000e-004	0.0000	1.7464	1.7464	5.6000e-004	0.0000	1.7605
Total	1.3600e-003	0.0178	5.3000e-003	2.0000e-005	1.5900e-003	5.6000e-004	2.1500e-003	1.7000e-004	5.2000e-004	6.9000e-004	0.0000	1.7464	1.7464	5.6000e-004	0.0000	1.7605

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	5.0000e-005	1.8800e-003	3.4000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5352	0.5352	2.0000e-005	0.0000	0.5358
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	3.0000e-005	3.0000e-005	2.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0661	0.0661	0.0000	0.0000	0.0662
Total	8.0000e-005	1.9100e-003	6.2000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6014	0.6014	2.0000e-005	0.0000	0.6020

3.4 Cofferdams Installation - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4000e-004	8.5300e-003	0.0102	1.0000e-005		5.0000e-004	5.0000e-004		4.6000e-004	4.6000e-004	0.0000	1.2284	1.2284	4.0000e-004	0.0000	1.2383
Total	8.4000e-004	8.5300e-003	0.0102	1.0000e-005	0.0000	5.0000e-004	5.0000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	1.2284	1.2284	4.0000e-004	0.0000	1.2383

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	2.5000e-004	2.4000e-004	2.1000e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4958	0.4958	2.0000e-005	0.0000	0.4963
Total	2.5000e-004	2.4000e-004	2.1000e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4958	0.4958	2.0000e-005	0.0000	0.4963

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4000e-004	8.5300e-003	0.0102	1.0000e-005		5.0000e-004	5.0000e-004		4.6000e-004	4.6000e-004	0.0000	1.2284	1.2284	4.0000e-004	0.0000	1.2383
Total	8.4000e-004	8.5300e-003	0.0102	1.0000e-005	0.0000	5.0000e-004	5.0000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	1.2284	1.2284	4.0000e-004	0.0000	1.2383

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	2.5000e-004	2.4000e-004	2.1000e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4958	0.4958	2.0000e-005	0.0000	0.4963
Total	2.5000e-004	2.4000e-004	2.1000e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4958	0.4958	2.0000e-005	0.0000	0.4963

3.5 Installation of Control Systems - 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	6.7000e-003	0.0562	0.0655	1.1000e-004		3.0300e-003	3.0300e-003		3.0100e-003	3.0100e-003	0.0000	9.6311	9.6311	7.2000e-004	0.0000	9.6492
Total	6.7000e-003	0.0562	0.0655	1.1000e-004		3.0300e-003	3.0300e-003		3.0100e-003	3.0100e-003	0.0000	9.6311	9.6311	7.2000e-004	0.0000	9.6492

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005	2.3000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0551	0.0551	0.0000	0.0000	0.0551
Total	3.0000e-005	3.0000e-005	2.3000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0551	0.0551	0.0000	0.0000	0.0551

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	6.7000e-003	0.0562	0.0655	1.1000e-004		3.0300e-003	3.0300e-003		3.0100e-003	3.0100e-003	0.0000	9.6311	9.6311	7.2000e-004	0.0000	9.6492

Total	6.7000e-003	0.0562	0.0655	1.1000e-004		3.0300e-003	3.0300e-003		3.0100e-003	3.0100e-003	0.0000	9.6311	9.6311	7.2000e-004	0.0000	9.6492
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005	2.3000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0551	0.0551	0.0000	0.0000	0.0551
Total	3.0000e-005	3.0000e-005	2.3000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0551	0.0551	0.0000	0.0000	0.0551

3.6 Access Stairs - 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	4.7000e-004	2.9500e-003	2.4700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.3666	0.3666	4.0000e-005	0.0000	0.3676
Total	4.7000e-004	2.9500e-003	2.4700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.3666	0.3666	4.0000e-005	0.0000	0.3676

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	2.0000e-005	5.4000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1529	0.1529	1.0000e-005	0.0000	0.1531
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	3.6000e-004	3.4000e-004	2.9900e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.7052	0.7052	3.0000e-005	0.0000	0.7058
Total	3.8000e-004	8.8000e-004	3.0900e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.8581	0.8581	4.0000e-005	0.0000	0.8589

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	4.7000e-004	2.9500e-003	2.4700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.3666	0.3666	4.0000e-005	0.0000	0.3676
Total	4.7000e-004	2.9500e-003	2.4700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.3666	0.3666	4.0000e-005	0.0000	0.3676

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	2.0000e-005	5.4000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1529	0.1529	1.0000e-005	0.0000	0.1531
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	3.6000e-004	3.4000e-004	2.9900e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.7052	0.7052	3.0000e-005	0.0000	0.7058
Total	3.8000e-004	8.8000e-004	3.0900e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.8581	0.8581	4.0000e-005	0.0000	0.8589

3.7 Vault Structures: Excavation - 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	1.6700e-003	0.0162	0.0221	3.0000e-005		8.6000e-004	8.6000e-004		8.0000e-004	8.0000e-004	0.0000	2.9070	2.9070	9.4000e-004	0.0000	2.9305
Total	1.6700e-003	0.0162	0.0221	3.0000e-005		8.6000e-004	8.6000e-004		8.0000e-004	8.0000e-004	0.0000	2.9070	2.9070	9.4000e-004	0.0000	2.9305

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	3.0000e-005	1.0700e-003	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3059	0.3059	1.0000e-005	0.0000	0.3062
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0882	0.0882	0.0000	0.0000	0.0882
Total	8.0000e-005	1.1100e-003	5.7000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.3940	0.3940	1.0000e-005	0.0000	0.3944

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	1.6700e-003	0.0162	0.0221	3.0000e-005		8.6000e-004	8.6000e-004		8.0000e-004	8.0000e-004	0.0000	2.9070	2.9070	9.4000e-004	0.0000	2.9305
Total	1.6700e-003	0.0162	0.0221	3.0000e-005		8.6000e-004	8.6000e-004		8.0000e-004	8.0000e-004	0.0000	2.9070	2.9070	9.4000e-004	0.0000	2.9305

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	3.0000e-005	1.0700e-003	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3059	0.3059	1.0000e-005	0.0000	0.3062
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0882	0.0882	0.0000	0.0000	0.0882
Total	8.0000e-005	1.1100e-003	5.7000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.3940	0.3940	1.0000e-005	0.0000	0.3944

3.8 Vault Structures: Doweling and Anchorage - 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	1.0300e-003	0.0121	8.3000e-003	4.0000e-005		3.7000e-004	3.7000e-004		3.4000e-004	3.4000e-004	0.0000	3.3096	3.3096	1.0700e-003	0.0000	3.3364
Total	1.0300e-003	0.0121	8.3000e-003	4.0000e-005		3.7000e-004	3.7000e-004		3.4000e-004	3.4000e-004	0.0000	3.3096	3.3096	1.0700e-003	0.0000	3.3364

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0882	0.0882	0.0000	0.0000	0.0882
Total	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0882	0.0882	0.0000	0.0000	0.0882

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	1.0300e-003	0.0121	8.3000e-003	4.0000e-005		3.7000e-004	3.7000e-004		3.4000e-004	3.4000e-004	0.0000	3.3096	3.3096	1.0700e-003	0.0000	3.3364

Total	1.0300e-003	0.0121	8.3000e-003	4.0000e-005		3.7000e-004	3.7000e-004		3.4000e-004	3.4000e-004	0.0000	3.3096	3.3096	1.0700e-003	0.0000	3.3364
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0882	0.0882	0.0000	0.0000	0.0882
Total	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0882	0.0882	0.0000	0.0000	0.0882

3.9 Vault Structures: Concrete Pour - 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	2.6700e-003	0.0229	0.0293	5.0000e-005		1.1900e-003	1.1900e-003		1.1500e-003	1.1500e-003	0.0000	4.2592	4.2592	7.3000e-004	0.0000	4.2775
Total	2.6700e-003	0.0229	0.0293	5.0000e-005		1.1900e-003	1.1900e-003		1.1500e-003	1.1500e-003	0.0000	4.2592	4.2592	7.3000e-004	0.0000	4.2775

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	2.6900e-003	4.9000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7646	0.7646	3.0000e-005	0.0000	0.7654
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	2.1000e-004	1.8700e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4407	0.4407	2.0000e-005	0.0000	0.4411
Total	3.1000e-004	2.9000e-003	2.3600e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.8000e-004	1.8000e-004	1.0000e-005	2.0000e-004	0.0000	1.2054	1.2054	5.0000e-005	0.0000	1.2065

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	2.6700e-003	0.0229	0.0293	5.0000e-005		1.1900e-003	1.1900e-003		1.1500e-003	1.1500e-003	0.0000	4.2592	4.2592	7.3000e-004	0.0000	4.2774
Total	2.6700e-003	0.0229	0.0293	5.0000e-005		1.1900e-003	1.1900e-003		1.1500e-003	1.1500e-003	0.0000	4.2592	4.2592	7.3000e-004	0.0000	4.2774

Mitigated Construction Off-Site

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

Hauling	8.0000e-005	2.6900e-003	4.9000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7646	0.7646	3.0000e-005	0.0000	0.7654
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	2.1000e-004	1.8700e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4407	0.4407	2.0000e-005	0.0000	0.4411
Total	3.1000e-004	2.9000e-003	2.3600e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.8000e-004	1.8000e-004	1.0000e-005	2.0000e-004	0.0000	1.2054	1.2054	5.0000e-005	0.0000	1.2065

3.10 Electrical Installation: Electrical conduit - 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	8.5200e-003	0.0746	0.0917	1.5000e-004		4.2300e-003	4.2300e-003		4.0700e-003	4.0700e-003	0.0000	12.7653	12.7653	2.2100e-003	0.0000	12.8207
Total	8.5200e-003	0.0746	0.0917	1.5000e-004		4.2300e-003	4.2300e-003		4.0700e-003	4.0700e-003	0.0000	12.7653	12.7653	2.2100e-003	0.0000	12.8207

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	7.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1432	0.1432	1.0000e-005	0.0000	0.1434
Total	7.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1432	0.1432	1.0000e-005	0.0000	0.1434

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	8.5200e-003	0.0746	0.0917	1.5000e-004		4.2300e-003	4.2300e-003		4.0700e-003	4.0700e-003	0.0000	12.7653	12.7653	2.2100e-003	0.0000	12.8206
Total	8.5200e-003	0.0746	0.0917	1.5000e-004		4.2300e-003	4.2300e-003		4.0700e-003	4.0700e-003	0.0000	12.7653	12.7653	2.2100e-003	0.0000	12.8206

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	7.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1432	0.1432	1.0000e-005	0.0000	0.1434
Total	7.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1432	0.1432	1.0000e-005	0.0000	0.1434

3.11 Pipe Installation - 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	4.7800e-003	0.0436	0.0556	9.0000e-005		2.3600e-003	2.3600e-003		2.2600e-003	2.2600e-003	0.0000	7.7517	7.7517	1.6000e-003	0.0000	7.7916
Total	4.7800e-003	0.0436	0.0556	9.0000e-005		2.3600e-003	2.3600e-003		2.2600e-003	2.2600e-003	0.0000	7.7517	7.7517	1.6000e-003	0.0000	7.7916

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	3.1000e-004	2.8000e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6611	0.6611	2.0000e-005	0.0000	0.6617
Total	3.4000e-004	3.1000e-004	2.8000e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6611	0.6611	2.0000e-005	0.0000	0.6617

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	4.7800e-003	0.0436	0.0556	9.0000e-005		2.3600e-003	2.3600e-003		2.2600e-003	2.2600e-003	0.0000	7.7517	7.7517	1.6000e-003	0.0000	7.7916

Total	4.7800e-003	0.0436	0.0556	9.0000e-005		2.3600e-003	2.3600e-003		2.2600e-003	2.2600e-003	0.0000	7.7517	7.7517	1.6000e-003	0.0000	7.7916
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	3.1000e-004	2.8000e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6611	0.6611	2.0000e-005	0.0000	0.6617
Total	3.4000e-004	3.1000e-004	2.8000e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6611	0.6611	2.0000e-005	0.0000	0.6617

3.12 Vault Structures: Coanda Screen - 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	9.5000e-004	8.8300e-003	0.0117	2.0000e-005		4.6000e-004	4.6000e-004		4.3000e-004	4.3000e-004	0.0000	1.5451	1.5451	4.8000e-004	0.0000	1.5571
Total	9.5000e-004	8.8300e-003	0.0117	2.0000e-005		4.6000e-004	4.6000e-004		4.3000e-004	4.3000e-004	0.0000	1.5451	1.5451	4.8000e-004	0.0000	1.5571

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	1.0000e-005	2.7000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0765	0.0765	0.0000	0.0000	0.0765
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	1.9000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0441	0.0441	0.0000	0.0000	0.0441
Total	3.0000e-005	2.9000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1205	0.1205	0.0000	0.0000	0.1207

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	9.5000e-004	8.8300e-003	0.0117	2.0000e-005		4.6000e-004	4.6000e-004		4.3000e-004	4.3000e-004	0.0000	1.5451	1.5451	4.8000e-004	0.0000	1.5571
Total	9.5000e-004	8.8300e-003	0.0117	2.0000e-005		4.6000e-004	4.6000e-004		4.3000e-004	4.3000e-004	0.0000	1.5451	1.5451	4.8000e-004	0.0000	1.5571

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	1.0000e-005	2.7000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0765	0.0765	0.0000	0.0000	0.0765
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	1.9000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0441	0.0441	0.0000	0.0000	0.0441
Total	3.0000e-005	2.9000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1205	0.1205	0.0000	0.0000	0.1207

3.13 Vault Structures: Diversion Pipeline - 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	0.0138	0.1205	0.1482	2.4000e-004		6.8300e-003	6.8300e-003		6.5800e-003	6.5800e-003	0.0000	20.6209	20.6209	3.5800e-003	0.0000	20.7103
Total	0.0138	0.1205	0.1482	2.4000e-004		6.8300e-003	6.8300e-003		6.5800e-003	6.5800e-003	0.0000	20.6209	20.6209	3.5800e-003	0.0000	20.7103

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	4.4000e-004	3.9300e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9255	0.9255	3.0000e-005	0.0000	0.9264
Total	4.7000e-004	4.4000e-004	3.9300e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9255	0.9255	3.0000e-005	0.0000	0.9264

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	0.0138	0.1205	0.1482	2.4000e-004		6.8300e-003	6.8300e-003		6.5800e-003	6.5800e-003	0.0000	20.6209	20.6209	3.5800e-003	0.0000	20.7103
Total	0.0138	0.1205	0.1482	2.4000e-004		6.8300e-003	6.8300e-003		6.5800e-003	6.5800e-003	0.0000	20.6209	20.6209	3.5800e-003	0.0000	20.7103

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	4.4000e-004	3.9300e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9255	0.9255	3.0000e-005	0.0000	0.9264
Total	4.7000e-004	4.4000e-004	3.9300e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9255	0.9255	3.0000e-005	0.0000	0.9264

3.14 Sediment Control: Pipe Installation - 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	2.8000e-003	0.0248	0.0322	5.0000e-005		1.3600e-003	1.3600e-003		1.3000e-003	1.3000e-003	0.0000	4.4254	4.4254	9.3000e-004	0.0000	4.4487
Total	2.8000e-003	0.0248	0.0322	5.0000e-005		1.3600e-003	1.3600e-003		1.3000e-003	1.3000e-003	0.0000	4.4254	4.4254	9.3000e-004	0.0000	4.4487

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	8.0000e-005	7.0000e-005	6.5000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1543	0.1543	1.0000e-005	0.0000	0.1544
Total	8.0000e-005	7.0000e-005	6.5000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1543	0.1543	1.0000e-005	0.0000	0.1544

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	2.8000e-003	0.0248	0.0322	5.0000e-005		1.3600e-003	1.3600e-003		1.3000e-003	1.3000e-003	0.0000	4.4254	4.4254	9.3000e-004	0.0000	4.4487

Total	2.8000e-003	0.0248	0.0322	5.0000e-005		1.3600e-003	1.3600e-003		1.3000e-003	1.3000e-003	0.0000	4.4254	4.4254	9.3000e-004	0.0000	4.4487
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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	8.0000e-005	7.0000e-005	6.5000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1543	0.1543	1.0000e-005	0.0000	0.1544
Total	8.0000e-005	7.0000e-005	6.5000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1543	0.1543	1.0000e-005	0.0000	0.1544

3.15 Install Riprap - 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	1.3100e-003	0.0133	0.0158	2.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	1.9108	1.9108	6.2000e-004	0.0000	1.9263
Total	1.3100e-003	0.0133	0.0158	2.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	1.9108	1.9108	6.2000e-004	0.0000	1.9263

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	2.0000e-005	8.1000e-004	1.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2294	0.2294	1.0000e-005	0.0000	0.2296
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	3.2000e-004	2.9000e-004	2.6200e-003	1.0000e-005	6.9000e-004	1.0000e-005	7.0000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6170	0.6170	2.0000e-005	0.0000	0.6176
Total	3.4000e-004	1.1000e-003	2.7700e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	1.9000e-004	1.0000e-005	2.1000e-004	0.0000	0.8464	0.8464	3.0000e-005	0.0000	0.8472

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	1.3100e-003	0.0133	0.0158	2.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	1.9108	1.9108	6.2000e-004	0.0000	1.9263
Total	1.3100e-003	0.0133	0.0158	2.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	1.9108	1.9108	6.2000e-004	0.0000	1.9263

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	2.0000e-005	8.1000e-004	1.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2294	0.2294	1.0000e-005	0.0000	0.2296
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	3.2000e-004	2.9000e-004	2.6200e-003	1.0000e-005	6.9000e-004	1.0000e-005	7.0000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6170	0.6170	2.0000e-005	0.0000	0.6176
Total	3.4000e-004	1.1000e-003	2.7700e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	1.9000e-004	1.0000e-005	2.1000e-004	0.0000	0.8464	0.8464	3.0000e-005	0.0000	0.8472

3.16 Sediment Control: Backfill Structure - 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	1.7700e-003	0.0136	0.0159	3.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	2.3339	2.3339	1.4000e-004	0.0000	2.3375
Total	1.7700e-003	0.0136	0.0159	3.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	2.3339	2.3339	1.4000e-004	0.0000	2.3375

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	5.0000e-005	1.6100e-003	2.9000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.4588	0.4588	2.0000e-005	0.0000	0.4592
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.3000e-004	1.1200e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2644	0.2644	1.0000e-005	0.0000	0.2647
Total	1.9000e-004	1.7400e-003	1.4100e-003	0.0000	4.0000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.1000e-004	0.0000	0.7232	0.7232	3.0000e-005	0.0000	0.7239

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	1.7700e-003	0.0136	0.0159	3.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	2.3339	2.3339	1.4000e-004	0.0000	2.3375
Total	1.7700e-003	0.0136	0.0159	3.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	2.3339	2.3339	1.4000e-004	0.0000	2.3375

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	5.0000e-005	1.6100e-003	2.9000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.4588	0.4588	2.0000e-005	0.0000	0.4592
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.3000e-004	1.1200e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2644	0.2644	1.0000e-005	0.0000	0.2647
Total	1.9000e-004	1.7400e-003	1.4100e-003	0.0000	4.0000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.1000e-004	0.0000	0.7232	0.7232	3.0000e-005	0.0000	0.7239

3.17 Start up and Testing - 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	4.3900e-003	0.0418	0.0492	8.0000e-005		2.3500e-003	2.3500e-003		2.2400e-003	2.2400e-003	0.0000	6.6669	6.6669	1.2300e-003	0.0000	6.6977
Total	4.3900e-003	0.0418	0.0492	8.0000e-005		2.3500e-003	2.3500e-003		2.2400e-003	2.2400e-003	0.0000	6.6669	6.6669	1.2300e-003	0.0000	6.6977

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-004	1.9000e-004	1.6800e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3967	0.3967	1.0000e-005	0.0000	0.3970
Total	2.0000e-004	1.9000e-004	1.6800e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3967	0.3967	1.0000e-005	0.0000	0.3970

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	4.3900e-003	0.0418	0.0492	8.0000e-005		2.3500e-003	2.3500e-003		2.2400e-003	2.2400e-003	0.0000	6.6669	6.6669	1.2300e-003	0.0000	6.6977

Total	4.3900e-003	0.0418	0.0492	8.0000e-005		2.3500e-003	2.3500e-003		2.2400e-003	2.2400e-003	0.0000	6.6669	6.6669	1.2300e-003	0.0000	6.6977
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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-004	1.9000e-004	1.6800e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3967	0.3967	1.0000e-005	0.0000	0.3970
Total	2.0000e-004	1.9000e-004	1.6800e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3967	0.3967	1.0000e-005	0.0000	0.3970

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

[illegible]

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	14.70	6.60	6.60	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	0.543525	0.028472	0.201539	0.126188	0.021864	0.005301	0.018669	0.039782	0.003072	0.002565	0.007028	0.001098	0.000897

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

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	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	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	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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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

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	5.9200e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Unmitigated	5.9200e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Total	5.9100e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005

Mitigated

[illegible]

Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Total	5.9100e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005

7.0 Water Detail

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

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

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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

LCDR - Monterey Bay Unified APCD Air District, Summer

LCDR**Monterey Bay Unified APCD Air District, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	2.10	Acre	2.10	91,476.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.8	Precipitation Freq (Days)	54
Climate Zone	5			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

Construction Phase - Construction phasing information provided by the project applicant.

Land Use - Project land use information provided by the project applicant.

Construction Phase - Construction phasing information provided by the project applicant.

Off-road Equipment - Off-road equipment information provided by the project applicant.

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Off-road Equipment - Off-road equipment information provided by the project applicant.

Trips and VMT - Construction trip information provided by the project applicant

Fleet Mix - CalEEMod Defaults.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	150	0
tblAreaCoating	Area_Parking	5489	0
tblConstructionPhase	NumDays	6.00	9.00
tblConstructionPhase	NumDays	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	PrecipitationFrequency	53	54
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00

tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.6659	57.3749	72.8524	0.1198	0.7360	2.7812	3.8177	0.1718	2.6714	3.2156	0.0000	11,491.9610	11,491.9610	2.0235	0.0000	11,542.5492
Maximum	6.6659	57.3749	72.8524	0.1198	0.7360	2.7812	3.8177	0.1718	2.6714	3.2156	0.0000	11,491.9610	11,491.9610	2.0235	0.0000	11,542.5492

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.6659	57.3749	72.8524	0.1198	0.7360	2.7812	3.8177	0.1718	2.6714	3.2156	0.0000	11,491.9610	11,491.9610	2.0235	0.0000	11,542.5492
Maximum	6.6659	57.3749	72.8524	0.1198	0.7360	2.7812	3.8177	0.1718	2.6714	3.2156	0.0000	11,491.9610	11,491.9610	2.0235	0.0000	11,542.5492

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
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	0.0324	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004

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	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
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	0.0324	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004

	ROG	NOx	CO	SO2	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	Sit Preparation - Access Road	Site Preparation	8/3/2021	8/10/2021	5	6	
2	Grading - Access Road	Grading	8/3/2021	8/10/2021	5	6	
3	Cofferdams Installation	Grading	8/11/2021	8/23/2021	5	9	
4	Installation of Control Systems	Trenching	8/25/2021	8/31/2021	5	5	
5	Access Stairs	Trenching	8/31/2021	9/21/2021	5	16	
6	Vault Structures: Excvation	Trenching	9/7/2021	9/16/2021	5	8	
7	Vault Structures: Doweling and Anchorage	Trenching	9/7/2021	9/16/2021	5	8	
8	Vault Structures: Concrete Pour	Trenching	9/7/2021	9/16/2021	5	8	
9	Electrical Installation: Electrical Conduit	Trenching	9/16/2021	10/4/2021	5	13	
10	Pipe Installation	Trenching	9/17/2021	10/4/2021	5	12	

11	Vault Structures: Coanda Screen	Trenching	9/17/2021	9/22/2021	5	4
12	Vault Structures: Diversion	Trenching	9/24/2021	10/22/2021	5	21
13	Pipeline Sediment Control: Pipe	Trenching	9/24/2021	10/4/2021	5	7
14	Installation Install Riprap	Trenching	9/24/2021	10/13/2021	5	14
15	Sediment Control: Backfill	Trenching	10/4/2021	10/13/2021	5	8
16	Structure Start up and Testing	Trenching	10/4/2021	10/19/2021	5	12

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Sit Preperation - Access Road	Excavators	1	8.00	158	0.38
Sit Preperation - Access Road	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading - Access Road	Graders	1	8.00	187	0.41
Cofferdams Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Installation of Control Systems	Generator Sets	4	8.00	84	0.74
Installation of Control Systems	Pumps	2	8.00	84	0.74
Installation of Control Systems	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Installation of Control Systems	Welders	1	8.00	46	0.45
Access Stairs	Cement and Mortar Mixers	1	8.00	9	0.56
Vault Structures: Excvation	Excavators	1	8.00	158	0.38
Vault Structures: Excvation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Vault Structures: Doweling and Anchorage	Bore/Drill Rigs	1	8.00	221	0.50
Vault Structures: Concrete Pour	Cement and Mortar Mixers	1	8.00	9	0.56
Vault Structures: Concrete Pour	Excavators	1	8.00	158	0.38
Vault Structures: Concrete Pour	Pumps	1	8.00	84	0.74
Electrical Installation: Electrical conduit	Concrete/Industrial Saws	1	8.00	81	0.73

Electrical Installation: Electrical conduit	Excavators	1	8.00	158	0.38
Electrical Installation: Electrical conduit	Forklifts	1	8.00	89	0.20
Electrical Installation: Electrical conduit	Pumps	1	8.00	84	0.74
Electrical Installation: Electrical conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipe Installation	Excavators	1	8.00	158	0.38
Pipe Installation	Pumps	1	8.00	84	0.74
Pipe Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Vault Structures: Coanda Screen	Cement and Mortar Mixers	1	8.00	9	0.56
Vault Structures: Coanda Screen	Excavators	1	8.00	158	0.38
Vault Structures: Coanda Screen	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Vault Structures: Diversion Pipeline	Concrete/Industrial Saws	1	8.00	81	0.73
Vault Structures: Diversion Pipeline	Excavators	1	8.00	158	0.38
Vault Structures: Diversion Pipeline	Forklifts	1	8.00	89	0.20
Vault Structures: Diversion Pipeline	Pumps	1	8.00	84	0.74
Vault Structures: Diversion Pipeline	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Sediment Control: Pipe Installation	Concrete/Industrial Saws	1	8.00	81	0.73
Sediment Control: Pipe Installation	Excavators	1	8.00	158	0.38
Sediment Control: Pipe Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Install Riprap	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Sediment Control: Backfill Structure	Cement and Mortar Mixers	1	8.00	9	0.56
Sediment Control: Backfill Structure	Concrete/Industrial Saws	1	8.00	81	0.73
Start up and Testing	Generator Sets	1	8.00	84	0.74
Start up and Testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Sit Preparation - Access Road	2	10.00	0.00	4.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Access Road	1	2.00	0.00	14.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Cofferdams Installation	1	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Installation of Control Systems	8	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Access Stairs	1	8.00	0.00	4.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Excavation	2	2.00	0.00	8.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Doweling and	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Concrete Pour	3	10.00	0.00	20.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Electrical Installation: Electrical conduit	5	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipe Installation	3	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Coanda Screen	3	2.00	0.00	2.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Diversion Pipeline	5	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Sediment Control: Pipe Installation	3	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Install Riprap	1	8.00	0.00	6.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Sediment Control: Backfill Structure	2	6.00	0.00	12.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Start up and Testing	3	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Sit Preperation - Access Road - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989		801.0920	801.0920	0.2591		807.5693
Total	0.4165	4.0492	5.5321	8.2700e-003	0.0000	0.2162	0.2162	0.0000	0.1989	0.1989		801.0920	801.0920	0.2591		807.5693

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	5.1100e-003	0.1761	0.0313	5.4000e-004	0.0117	6.6000e-004	0.0123	3.1900e-003	6.3000e-004	3.8200e-003		56.7088	56.7088	2.1800e-003		56.7632
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	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089
Total	0.0607	0.2219	0.5313	1.8300e-003	0.1394	1.6500e-003	0.1410	0.0371	1.5500e-003	0.0386		185.3978	185.3978	6.9700e-003		185.5721

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989	0.0000	801.0920	801.0920	0.2591		807.5693
Total	0.4165	4.0492	5.5321	8.2700e-003	0.0000	0.2162	0.2162	0.0000	0.1989	0.1989	0.0000	801.0920	801.0920	0.2591		807.5693

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	5.1100e-003	0.1761	0.0313	5.4000e-004	0.0117	6.6000e-004	0.0123	3.1900e-003	6.3000e-004	3.8200e-003		56.7088	56.7088	2.1800e-003		56.7632
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	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089
Total	0.0607	0.2219	0.5313	1.8300e-003	0.1394	1.6500e-003	0.1410	0.0371	1.5500e-003	0.0386		185.3978	185.3978	6.9700e-003		185.5721

3.3 Grading - Access Road - 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	0.4530	5.9246	1.7672	6.6200e-003		0.1877	0.1877		0.1727	0.1727		641.6841	641.6841	0.2075		646.8725
Total	0.4530	5.9246	1.7672	6.6200e-003	0.5303	0.1877	0.7179	0.0573	0.1727	0.2299		641.6841	641.6841	0.2075		646.8725

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	0.0179	0.6162	0.1096	1.8800e-003	0.0408	2.3100e-003	0.0431	0.0112	2.2100e-003	0.0134		198.4807	198.4807	7.6200e-003		198.6713
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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0290	0.6254	0.2096	2.1400e-003	0.0663	2.5100e-003	0.0688	0.0180	2.3900e-003	0.0204		224.2185	224.2185	8.5800e-003		224.4330

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	0.4530	5.9246	1.7672	6.6200e-003		0.1877	0.1877		0.1727	0.1727	0.0000	641.6841	641.6841	0.2075		646.8725
Total	0.4530	5.9246	1.7672	6.6200e-003	0.5303	0.1877	0.7179	0.0573	0.1727	0.2299	0.0000	641.6841	641.6841	0.2075		646.8725

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	0.0179	0.6162	0.1096	1.8800e-003	0.0408	2.3100e-003	0.0431	0.0112	2.2100e-003	0.0134		198.4807	198.4807	7.6200e-003		198.6713
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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0290	0.6254	0.2096	2.1400e-003	0.0663	2.5100e-003	0.0688	0.0180	2.3900e-003	0.0204		224.2185	224.2185	8.5800e-003		224.4330

3.4 Cofferdams Installation - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028		300.9001	300.9001	0.0973		303.3330
Total	0.1873	1.8958	2.2602	3.1100e-003	0.0000	0.1118	0.1118	0.0000	0.1028	0.1028		300.9001	300.9001	0.0973		303.3330

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	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089
Total	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089

Mitigated Construction On-Site

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

Off-Road	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028	0.0000	300.9001	300.9001	0.0973		303.3330
Total	0.1873	1.8958	2.2602	3.1100e-003	0.0000	0.1118	0.1118	0.0000	0.1028	0.1028	0.0000	300.9001	300.9001	0.0973		303.3330

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	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089
Total	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089

3.5 Installation of Control Systems - 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	2.6804	22.4894	26.1992	0.0451		1.2120	1.2120		1.2031	1.2031		4,246.5874	4,246.5874	0.3195		4,254.5744
Total	2.6804	22.4894	26.1992	0.0451		1.2120	1.2120		1.2031	1.2031		4,246.5874	4,246.5874	0.3195		4,254.5744

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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618

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	2.6804	22.4894	26.1992	0.0451		1.2120	1.2120		1.2031	1.2031	0.0000	4,246.5874	4,246.5874	0.3195		4,254.5743
Total	2.6804	22.4894	26.1992	0.0451		1.2120	1.2120		1.2031	1.2031	0.0000	4,246.5874	4,246.5874	0.3195		4,254.5743

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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618

3.6 Access Stairs - 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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474
Total	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474

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	1.9100e-003	0.0660	0.0117	2.0000e-004	4.3700e-003	2.5000e-004	4.6200e-003	1.2000e-003	2.4000e-004	1.4300e-003		21.2658	21.2658	8.2000e-004		21.2862
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	0.0445	0.0367	0.4000	1.0300e-003	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		102.9512	102.9512	3.8300e-003		103.0471
Total	0.0464	0.1027	0.4117	1.2300e-003	0.1066	1.0500e-003	0.1076	0.0283	9.7000e-004	0.0293		124.2170	124.2170	4.6500e-003		124.3333

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474
Total	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474

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	1.9100e-003	0.0660	0.0117	2.0000e-004	4.3700e-003	2.5000e-004	4.6200e-003	1.2000e-003	2.4000e-004	1.4300e-003		21.2658	21.2658	8.2000e-004		21.2862
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	0.0445	0.0367	0.4000	1.0300e-003	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		102.9512	102.9512	3.8300e-003		103.0471
Total	0.0464	0.1027	0.4117	1.2300e-003	0.1066	1.0500e-003	0.1076	0.0283	9.7000e-004	0.0293		124.2170	124.2170	4.6500e-003		124.3333

3.7 Vault Structures: Excavation - 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	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989		801.0920	801.0920	0.2591		807.5693
Total	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989		801.0920	801.0920	0.2591		807.5693

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	7.6600e-003	0.2641	0.0470	8.1000e-004	0.0175	9.9000e-004	0.0185	4.7900e-003	9.5000e-004	5.7400e-003		85.0632	85.0632	3.2700e-003		85.1448
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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0188	0.2733	0.1470	1.0700e-003	0.0430	1.1900e-003	0.0442	0.0116	1.1300e-003	0.0127		110.8010	110.8010	4.2300e-003		110.9066

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	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989	0.0000	801.0920	801.0920	0.2591		807.5693

Total	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989	0.0000	801.0920	801.0920	0.2591		807.5693
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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	7.6600e-003	0.2641	0.0470	8.1000e-004	0.0175	9.9000e-004	0.0185	4.7900e-003	9.5000e-004	5.7400e-003		85.0632	85.0632	3.2700e-003		85.1448
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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0188	0.2733	0.1470	1.0700e-003	0.0430	1.1900e-003	0.0442	0.0116	1.1300e-003	0.0127		110.8010	110.8010	4.2300e-003		110.9066

3.8 Vault Structures: Doweling and Anchorage - 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	0.2582	3.0228	2.0740	9.4300e-003		0.0916	0.0916		0.0843	0.0843		912.0624	912.0624	0.2950		919.4369
Total	0.2582	3.0228	2.0740	9.4300e-003		0.0916	0.0916		0.0843	0.0843		912.0624	912.0624	0.2950		919.4369

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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618

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	0.2582	3.0228	2.0740	9.4300e-003		0.0916	0.0916		0.0843	0.0843	0.0000	912.0624	912.0624	0.2950		919.4369
Total	0.2582	3.0228	2.0740	9.4300e-003		0.0916	0.0916		0.0843	0.0843	0.0000	912.0624	912.0624	0.2950		919.4369

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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618

3.9 Vault Structures: Concrete Pour - 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	0.6684	5.7316	7.3208	0.0125		0.2964	0.2964		0.2880	0.2880		1,173.7440	1,173.7440	0.2010		1,178.7690
Total	0.6684	5.7316	7.3208	0.0125		0.2964	0.2964		0.2880	0.2880		1,173.7440	1,173.7440	0.2010		1,178.7690

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	0.0192	0.6602	0.1175	2.0100e-003	0.0437	2.4700e-003	0.0462	0.0120	2.3700e-003	0.0143		212.6579	212.6579	8.1700e-003		212.8621
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	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089
Total	0.0748	0.7061	0.6174	3.3000e-003	0.1714	3.4600e-003	0.1749	0.0459	3.2900e-003	0.0491		341.3469	341.3469	0.0130		341.6710

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	0.6684	5.7316	7.3208	0.0125		0.2964	0.2964		0.2880	0.2880	0.0000	1,173.7440	1,173.7440	0.2010		1,178.7690
Total	0.6684	5.7316	7.3208	0.0125		0.2964	0.2964		0.2880	0.2880	0.0000	1,173.7440	1,173.7440	0.2010		1,178.7690

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	0.0192	0.6602	0.1175	2.0100e-003	0.0437	2.4700e-003	0.0462	0.0120	2.3700e-003	0.0143		212.6579	212.6579	8.1700e-003		212.8621
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	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089
Total	0.0748	0.7061	0.6174	3.3000e-003	0.1714	3.4600e-003	0.1749	0.0459	3.2900e-003	0.0491		341.3469	341.3469	0.0130		341.6710

3.10 Electrical Installation: Electrical conduit - 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	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266		2,164.8232	2,164.8232	0.3754		2,174.2073
Total	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266		2,164.8232	2,164.8232	0.3754		2,174.2073

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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618

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	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266	0.0000	2,164.8232	2,164.8232	0.3754		2,174.2073

Total	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266	0.0000	2,164.823 2	2,164.8232	0.3754		2,174.207 3
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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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618

3.11 Pipe Installation - 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	0.7969	7.2592	9.2727	0.0149		0.3938	0.3938		0.3765	0.3765		1,424.127 7	1,424.1277	0.2931		1,431.454 6
Total	0.7969	7.2592	9.2727	0.0149		0.3938	0.3938		0.3765	0.3765		1,424.127 7	1,424.1277	0.2931		1,431.454 6

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	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089
Total	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089

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	0.7969	7.2592	9.2727	0.0149		0.3938	0.3938		0.3765	0.3765	0.0000	1,424.1277	1,424.1277	0.2931		1,431.4546
Total	0.7969	7.2592	9.2727	0.0149		0.3938	0.3938		0.3765	0.3765	0.0000	1,424.1277	1,424.1277	0.2931		1,431.4546

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	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089
Total	0.0556	0.0458	0.5000	1.2900e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		128.6890	128.6890	4.7900e-003		128.8089

3.12 Vault Structures: Coanda Screen - 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	0.4752	4.4174	5.8404	8.9900e-003		0.2305	0.2305		0.2132	0.2132		851.6084	851.6084	0.2643		858.2167
Total	0.4752	4.4174	5.8404	8.9900e-003		0.2305	0.2305		0.2132	0.2132		851.6084	851.6084	0.2643		858.2167

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	3.8300e-003	0.1320	0.0235	4.0000e-004	8.7400e-003	4.9000e-004	9.2300e-003	2.4000e-003	4.7000e-004	2.8700e-003		42.5316	42.5316	1.6300e-003		42.5724
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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0150	0.1412	0.1235	6.6000e-004	0.0343	6.9000e-004	0.0350	9.1700e-003	6.5000e-004	9.8300e-003		68.2694	68.2694	2.5900e-003		68.3342

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	0.4752	4.4174	5.8404	8.9900e-003		0.2305	0.2305		0.2132	0.2132	0.0000	851.6084	851.6084	0.2643		858.2167
Total	0.4752	4.4174	5.8404	8.9900e-003		0.2305	0.2305		0.2132	0.2132	0.0000	851.6084	851.6084	0.2643		858.2167

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	3.8300e-003	0.1320	0.0235	4.0000e-004	8.7400e-003	4.9000e-004	9.2300e-003	2.4000e-003	4.7000e-004	2.8700e-003		42.5316	42.5316	1.6300e-003		42.5724
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	0.0111	9.1700e-003	0.1000	2.6000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		25.7378	25.7378	9.6000e-004		25.7618
Total	0.0150	0.1412	0.1235	6.6000e-004	0.0343	6.9000e-004	0.0350	9.1700e-003	6.5000e-004	9.8300e-003		68.2694	68.2694	2.5900e-003		68.3342

3.13 Vault Structures: Diversion Pipeline - 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	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266		2,164.8232	2,164.8232	0.3754		2,174.2073
Total	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266		2,164.8232	2,164.8232	0.3754		2,174.2073

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	0.0445	0.0367	0.4000	1.0300e-003	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		102.9512	102.9512	3.8300e-003		103.0471
Total	0.0445	0.0367	0.4000	1.0300e-003	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		102.9512	102.9512	3.8300e-003		103.0471

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	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266	0.0000	2,164.8232	2,164.8232	0.3754		2,174.2073

Total	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266	0.0000	2,164.823 2	2,164.8232	0.3754		2,174.207 3
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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	0.0445	0.0367	0.4000	1.0300e-003	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		102.9512	102.9512	3.8300e-003		103.0471
Total	0.0445	0.0367	0.4000	1.0300e-003	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		102.9512	102.9512	3.8300e-003		103.0471

3.14 Sediment Control: Pipe Installation - 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	0.8013	7.0871	9.2061	0.0145		0.3893	0.3893		0.3720	0.3720		1,393.756 7	1,393.7567	0.2935		1,401.094 3
Total	0.8013	7.0871	9.2061	0.0145		0.3893	0.3893		0.3720	0.3720		1,393.756 7	1,393.7567	0.2935		1,401.094 3

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	0.0222	0.0183	0.2000	5.2000e-004	0.0511	4.0000e-004	0.0515	0.0136	3.7000e-004	0.0139		51.4756	51.4756	1.9200e-003		51.5236
Total	0.0222	0.0183	0.2000	5.2000e-004	0.0511	4.0000e-004	0.0515	0.0136	3.7000e-004	0.0139		51.4756	51.4756	1.9200e-003		51.5236

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	0.8013	7.0871	9.2061	0.0145		0.3893	0.3893		0.3720	0.3720	0.0000	1,393.7567	1,393.7567	0.2935		1,401.0943
Total	0.8013	7.0871	9.2061	0.0145		0.3893	0.3893		0.3720	0.3720	0.0000	1,393.7567	1,393.7567	0.2935		1,401.0943

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	0.0222	0.0183	0.2000	5.2000e-004	0.0511	4.0000e-004	0.0515	0.0136	3.7000e-004	0.0139		51.4756	51.4756	1.9200e-003		51.5236
Total	0.0222	0.0183	0.2000	5.2000e-004	0.0511	4.0000e-004	0.0515	0.0136	3.7000e-004	0.0139		51.4756	51.4756	1.9200e-003		51.5236

3.15 Install Riprap - 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	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028		300.9001	300.9001	0.0973		303.3330
Total	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028		300.9001	300.9001	0.0973		303.3330

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	3.2800e-003	0.1132	0.0201	3.5000e-004	7.4900e-003	4.2000e-004	7.9100e-003	2.0500e-003	4.1000e-004	2.4600e-003		36.4556	36.4556	1.4000e-003		36.4906
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	0.0445	0.0367	0.4000	1.0300e-003	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		102.9512	102.9512	3.8300e-003		103.0471
Total	0.0478	0.1499	0.4201	1.3800e-003	0.1097	1.2200e-003	0.1109	0.0292	1.1400e-003	0.0303		139.4069	139.4069	5.2300e-003		139.5377

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	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028	0.0000	300.9001	300.9001	0.0973		303.3330
Total	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028	0.0000	300.9001	300.9001	0.0973		303.3330

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	3.2800e-003	0.1132	0.0201	3.5000e-004	7.4900e-003	4.2000e-004	7.9100e-003	2.0500e-003	4.1000e-004	2.4600e-003		36.4556	36.4556	1.4000e-003		36.4906
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	0.0445	0.0367	0.4000	1.0300e-003	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		102.9512	102.9512	3.8300e-003		103.0471
Total	0.0478	0.1499	0.4201	1.3800e-003	0.1097	1.2200e-003	0.1109	0.0292	1.1400e-003	0.0303		139.4069	139.4069	5.2300e-003		139.5377

3.16 Sediment Control: Backfill Structure - 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	0.4436	3.4061	3.9824	6.9700e-003		0.1874	0.1874		0.1874	0.1874		643.1810	643.1810	0.0397		644.1724
Total	0.4436	3.4061	3.9824	6.9700e-003		0.1874	0.1874		0.1874	0.1874		643.1810	643.1810	0.0397		644.1724

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	0.0115	0.3961	0.0705	1.2100e-003	0.0262	1.4800e-003	0.0277	7.1900e-003	1.4200e-003	8.6100e-003		127.5947	127.5947	4.9000e-003		127.7172
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	0.0334	0.0275	0.3000	7.8000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		77.2134	77.2134	2.8800e-003		77.2853
Total	0.0449	0.4236	0.3705	1.9900e-003	0.1029	2.0800e-003	0.1049	0.0275	1.9700e-003	0.0295		204.8082	204.8082	7.7800e-003		205.0026

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	0.4436	3.4061	3.9824	6.9700e-003		0.1874	0.1874		0.1874	0.1874	0.0000	643.1810	643.1810	0.0397		644.1724

Total	0.4436	3.4061	3.9824	6.9700e-003		0.1874	0.1874		0.1874	0.1874	0.0000	643.1810	643.1810	0.0397		644.1724
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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	0.0115	0.3961	0.0705	1.2100e-003	0.0262	1.4800e-003	0.0277	7.1900e-003	1.4200e-003	8.6100e-003		127.5947	127.5947	4.9000e-003		127.7172
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	0.0334	0.0275	0.3000	7.8000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		77.2134	77.2134	2.8800e-003		77.2853
Total	0.0449	0.4236	0.3705	1.9900e-003	0.1029	2.0800e-003	0.1049	0.0275	1.9700e-003	0.0295		204.8082	204.8082	7.7800e-003		205.0026

3.17 Start up and Testing - 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	0.7319	6.9578	8.2052	0.0128		0.3913	0.3913		0.3734	0.3734		1,224.8347	1,224.8347	0.2264		1,230.4954
Total	0.7319	6.9578	8.2052	0.0128		0.3913	0.3913		0.3734	0.3734		1,224.8347	1,224.8347	0.2264		1,230.4954

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	0.0334	0.0275	0.3000	7.8000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		77.2134	77.2134	2.8800e-003		77.2853
Total	0.0334	0.0275	0.3000	7.8000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		77.2134	77.2134	2.8800e-003		77.2853

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	0.7319	6.9578	8.2052	0.0128		0.3913	0.3913		0.3734	0.3734	0.0000	1,224.8347	1,224.8347	0.2264		1,230.4954
Total	0.7319	6.9578	8.2052	0.0128		0.3913	0.3913		0.3734	0.3734	0.0000	1,224.8347	1,224.8347	0.2264		1,230.4954

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	0.0334	0.0275	0.3000	7.8000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		77.2134	77.2134	2.8800e-003		77.2853
Total	0.0334	0.0275	0.3000	7.8000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		77.2134	77.2134	2.8800e-003		77.2853

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.543525	0.028472	0.201539	0.126188	0.021864	0.005301	0.018669	0.039782	0.003072	0.002565	0.007028	0.001098	0.000897

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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
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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	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
Unmitigated	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
Total	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
Total	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

LCDR - Monterey Bay Unified APCD Air District, Winter

LCDR**Monterey Bay Unified APCD Air District, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	2.10	Acre	2.10	91,476.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.8	Precipitation Freq (Days)	54
Climate Zone	5			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

Construction Phase - Construction phasing information provided by the project applicant.

Land Use - Project land use information provided by the project applicant.

Construction Phase - Construction phasing information provided by the project applicant.

Off-road Equipment - Off-road equipment information provided by the project applicant.

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Off-road Equipment - Off-road equipment information provided by the project applicant.

Trips and VMT - Construction trip information provided by the project applicant

Fleet Mix - CalEEMod Defaults.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	150	0
tblAreaCoating	Area_Parking	5489	0
tblConstructionPhase	NumDays	6.00	9.00
tblConstructionPhase	NumDays	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	PrecipitationFrequency	53	54
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00

tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.7013	57.4402	72.7723	0.1194	0.7360	2.7812	3.8178	0.1718	2.6714	3.2156	0.0000	11,450.9247	11,450.9247	2.0228	0.0000	11,501.4956
Maximum	6.7013	57.4402	72.7723	0.1194	0.7360	2.7812	3.8178	0.1718	2.6714	3.2156	0.0000	11,450.9247	11,450.9247	2.0228	0.0000	11,501.4956

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.7013	57.4402	72.7723	0.1194	0.7360	2.7812	3.8178	0.1718	2.6714	3.2156	0.0000	11,450.9246	11,450.9246	2.0228	0.0000	11,501.4956
Maximum	6.7013	57.4402	72.7723	0.1194	0.7360	2.7812	3.8178	0.1718	2.6714	3.2156	0.0000	11,450.9246	11,450.9246	2.0228	0.0000	11,501.4956

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
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	0.0324	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004

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	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
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	0.0324	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004

	ROG	NOx	CO	SO2	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	Sit Preparation - Access Road	Site Preparation	8/3/2021	8/10/2021	5	6	
2	Grading - Access Road	Grading	8/3/2021	8/10/2021	5	6	
3	Cofferdams Installation	Grading	8/11/2021	8/23/2021	5	9	
4	Installation of Control Systems	Trenching	8/25/2021	8/31/2021	5	5	
5	Access Stairs	Trenching	8/31/2021	9/21/2021	5	16	
6	Vault Structures: Excvation	Trenching	9/7/2021	9/16/2021	5	8	
7	Vault Structures: Doweling and Anchorage	Trenching	9/7/2021	9/16/2021	5	8	
8	Vault Structures: Concrete Pour	Trenching	9/7/2021	9/16/2021	5	8	
9	Electrical Installation: Electrical Conduit	Trenching	9/16/2021	10/4/2021	5	13	
10	Pipe Installation	Trenching	9/17/2021	10/4/2021	5	12	

11	Vault Structures: Coanda Screen	Trenching	9/17/2021	9/22/2021	5	4
12	Vault Structures: Diversion	Trenching	9/24/2021	10/22/2021	5	21
13	Pipeline Sediment Control: Pipe	Trenching	9/24/2021	10/4/2021	5	7
14	Installation Install Riprap	Trenching	9/24/2021	10/13/2021	5	14
15	Sediment Control: Backfill	Trenching	10/4/2021	10/13/2021	5	8
16	Structure Start up and Testing	Trenching	10/4/2021	10/19/2021	5	12

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Sit Preperation - Access Road	Excavators	1	8.00	158	0.38
Sit Preperation - Access Road	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading - Access Road	Graders	1	8.00	187	0.41
Cofferdams Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Installation of Control Systems	Generator Sets	4	8.00	84	0.74
Installation of Control Systems	Pumps	2	8.00	84	0.74
Installation of Control Systems	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Installation of Control Systems	Welders	1	8.00	46	0.45
Access Stairs	Cement and Mortar Mixers	1	8.00	9	0.56
Vault Structures: Excvation	Excavators	1	8.00	158	0.38
Vault Structures: Excvation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Vault Structures: Doweling and Anchorage	Bore/Drill Rigs	1	8.00	221	0.50
Vault Structures: Concrete Pour	Cement and Mortar Mixers	1	8.00	9	0.56
Vault Structures: Concrete Pour	Excavators	1	8.00	158	0.38
Vault Structures: Concrete Pour	Pumps	1	8.00	84	0.74
Electrical Installation: Electrical conduit	Concrete/Industrial Saws	1	8.00	81	0.73

Electrical Installation: Electrical conduit	Excavators	1	8.00	158	0.38
Electrical Installation: Electrical conduit	Forklifts	1	8.00	89	0.20
Electrical Installation: Electrical conduit	Pumps	1	8.00	84	0.74
Electrical Installation: Electrical conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipe Installation	Excavators	1	8.00	158	0.38
Pipe Installation	Pumps	1	8.00	84	0.74
Pipe Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Vault Structures: Coanda Screen	Cement and Mortar Mixers	1	8.00	9	0.56
Vault Structures: Coanda Screen	Excavators	1	8.00	158	0.38
Vault Structures: Coanda Screen	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Vault Structures: Diversion Pipeline	Concrete/Industrial Saws	1	8.00	81	0.73
Vault Structures: Diversion Pipeline	Excavators	1	8.00	158	0.38
Vault Structures: Diversion Pipeline	Forklifts	1	8.00	89	0.20
Vault Structures: Diversion Pipeline	Pumps	1	8.00	84	0.74
Vault Structures: Diversion Pipeline	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Sediment Control: Pipe Installation	Concrete/Industrial Saws	1	8.00	81	0.73
Sediment Control: Pipe Installation	Excavators	1	8.00	158	0.38
Sediment Control: Pipe Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Install Riprap	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Sediment Control: Backfill Structure	Cement and Mortar Mixers	1	8.00	9	0.56
Sediment Control: Backfill Structure	Concrete/Industrial Saws	1	8.00	81	0.73
Start up and Testing	Generator Sets	1	8.00	84	0.74
Start up and Testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Sit Preparation - Access Road	2	10.00	0.00	4.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Access Road	1	2.00	0.00	14.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Cofferdams Installation	1	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Installation of Control Systems	8	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Access Stairs	1	8.00	0.00	4.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Excavation	2	2.00	0.00	8.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Doweling and	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Concrete Pour	3	10.00	0.00	20.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Electrical Installation: Electrical conduit	5	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipe Installation	3	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Coanda Screen	3	2.00	0.00	2.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Vault Structures: Diversion Pipeline	5	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Sediment Control: Pipe Installation	3	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Install Riprap	1	8.00	0.00	6.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Sediment Control: Backfill Structure	2	6.00	0.00	12.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Start up and Testing	3	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Sit Preperation - Access Road - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989		801.0920	801.0920	0.2591		807.5693
Total	0.4165	4.0492	5.5321	8.2700e-003	0.0000	0.2162	0.2162	0.0000	0.1989	0.1989		801.0920	801.0920	0.2591		807.5693

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	5.2900e-003	0.1792	0.0347	5.3000e-004	0.0117	6.8000e-004	0.0123	3.1900e-003	6.5000e-004	3.8400e-003		55.4753	55.4753	2.3900e-003		55.5350
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	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963
Total	0.0682	0.2367	0.5159	1.7400e-003	0.1394	1.6700e-003	0.1411	0.0371	1.5700e-003	0.0386		176.3585	176.3585	6.9100e-003		176.5313

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989	0.0000	801.0920	801.0920	0.2591		807.5693
Total	0.4165	4.0492	5.5321	8.2700e-003	0.0000	0.2162	0.2162	0.0000	0.1989	0.1989	0.0000	801.0920	801.0920	0.2591		807.5693

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	5.2900e-003	0.1792	0.0347	5.3000e-004	0.0117	6.8000e-004	0.0123	3.1900e-003	6.5000e-004	3.8400e-003		55.4753	55.4753	2.3900e-003		55.5350
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	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963
Total	0.0682	0.2367	0.5159	1.7400e-003	0.1394	1.6700e-003	0.1411	0.0371	1.5700e-003	0.0386		176.3585	176.3585	6.9100e-003		176.5313

3.3 Grading - Access Road - 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	0.4530	5.9246	1.7672	6.6200e-003		0.1877	0.1877		0.1727	0.1727		641.6841	641.6841	0.2075		646.8725
Total	0.4530	5.9246	1.7672	6.6200e-003	0.5303	0.1877	0.7179	0.0573	0.1727	0.2299		641.6841	641.6841	0.2075		646.8725

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	0.0185	0.6271	0.1213	1.8400e-003	0.0408	2.3800e-003	0.0432	0.0112	2.2700e-003	0.0135		194.1635	194.1635	8.3600e-003		194.3725
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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0311	0.6386	0.2176	2.0800e-003	0.0663	2.5800e-003	0.0689	0.0180	2.4500e-003	0.0204		218.3402	218.3402	9.2600e-003		218.5717

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	0.4530	5.9246	1.7672	6.6200e-003		0.1877	0.1877		0.1727	0.1727	0.0000	641.6841	641.6841	0.2075		646.8725
Total	0.4530	5.9246	1.7672	6.6200e-003	0.5303	0.1877	0.7179	0.0573	0.1727	0.2299	0.0000	641.6841	641.6841	0.2075		646.8725

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	0.0185	0.6271	0.1213	1.8400e-003	0.0408	2.3800e-003	0.0432	0.0112	2.2700e-003	0.0135		194.1635	194.1635	8.3600e-003		194.3725
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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0311	0.6386	0.2176	2.0800e-003	0.0663	2.5800e-003	0.0689	0.0180	2.4500e-003	0.0204		218.3402	218.3402	9.2600e-003		218.5717

3.4 Cofferdams Installation - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028		300.9001	300.9001	0.0973		303.3330
Total	0.1873	1.8958	2.2602	3.1100e-003	0.0000	0.1118	0.1118	0.0000	0.1028	0.1028		300.9001	300.9001	0.0973		303.3330

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	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963
Total	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963

Mitigated Construction On-Site

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

Off-Road	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028	0.0000	300.9001	300.9001	0.0973		303.3330
Total	0.1873	1.8958	2.2602	3.1100e-003	0.0000	0.1118	0.1118	0.0000	0.1028	0.1028	0.0000	300.9001	300.9001	0.0973		303.3330

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	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963
Total	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963

3.5 Installation of Control Systems - 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	2.6804	22.4894	26.1992	0.0451		1.2120	1.2120		1.2031	1.2031		4,246.5874	4,246.5874	0.3195		4,254.5744
Total	2.6804	22.4894	26.1992	0.0451		1.2120	1.2120		1.2031	1.2031		4,246.5874	4,246.5874	0.3195		4,254.5744

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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993

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	2.6804	22.4894	26.1992	0.0451		1.2120	1.2120		1.2031	1.2031	0.0000	4,246.5874	4,246.5874	0.3195		4,254.5743
Total	2.6804	22.4894	26.1992	0.0451		1.2120	1.2120		1.2031	1.2031	0.0000	4,246.5874	4,246.5874	0.3195		4,254.5743

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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993

3.6 Access Stairs - 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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474
Total	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474

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	1.9800e-003	0.0672	0.0130	2.0000e-004	4.3700e-003	2.5000e-004	4.6200e-003	1.2000e-003	2.4000e-004	1.4400e-003		20.8032	20.8032	9.0000e-004		20.8256
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	0.0503	0.0461	0.3850	9.7000e-004	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		96.7066	96.7066	3.6200e-003		96.7970
Total	0.0523	0.1133	0.3980	1.1700e-003	0.1066	1.0500e-003	0.1076	0.0283	9.7000e-004	0.0293		117.5098	117.5098	4.5200e-003		117.6227

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474
Total	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474

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	1.9800e-003	0.0672	0.0130	2.0000e-004	4.3700e-003	2.5000e-004	4.6200e-003	1.2000e-003	2.4000e-004	1.4400e-003		20.8032	20.8032	9.0000e-004		20.8256
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	0.0503	0.0461	0.3850	9.7000e-004	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		96.7066	96.7066	3.6200e-003		96.7970
Total	0.0523	0.1133	0.3980	1.1700e-003	0.1066	1.0500e-003	0.1076	0.0283	9.7000e-004	0.0293		117.5098	117.5098	4.5200e-003		117.6227

3.7 Vault Structures: Excavation - 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	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989		801.0920	801.0920	0.2591		807.5693
Total	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989		801.0920	801.0920	0.2591		807.5693

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	7.9400e-003	0.2687	0.0520	7.9000e-004	0.0175	1.0200e-003	0.0185	4.7900e-003	9.7000e-004	5.7600e-003		83.2129	83.2129	3.5800e-003		83.3025
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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0205	0.2803	0.1483	1.0300e-003	0.0430	1.2200e-003	0.0442	0.0116	1.1500e-003	0.0127		107.3896	107.3896	4.4800e-003		107.5017

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	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989	0.0000	801.0920	801.0920	0.2591		807.5693

Total	0.4165	4.0492	5.5321	8.2700e-003		0.2162	0.2162		0.1989	0.1989	0.0000	801.0920	801.0920	0.2591		807.5693
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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	7.9400e-003	0.2687	0.0520	7.9000e-004	0.0175	1.0200e-003	0.0185	4.7900e-003	9.7000e-004	5.7600e-003		83.2129	83.2129	3.5800e-003		83.3025
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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0205	0.2803	0.1483	1.0300e-003	0.0430	1.2200e-003	0.0442	0.0116	1.1500e-003	0.0127		107.3896	107.3896	4.4800e-003		107.5017

3.8 Vault Structures: Doweling and Anchorage - 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	0.2582	3.0228	2.0740	9.4300e-003		0.0916	0.0916		0.0843	0.0843		912.0624	912.0624	0.2950		919.4369
Total	0.2582	3.0228	2.0740	9.4300e-003		0.0916	0.0916		0.0843	0.0843		912.0624	912.0624	0.2950		919.4369

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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993

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	0.2582	3.0228	2.0740	9.4300e-003		0.0916	0.0916		0.0843	0.0843	0.0000	912.0624	912.0624	0.2950		919.4369
Total	0.2582	3.0228	2.0740	9.4300e-003		0.0916	0.0916		0.0843	0.0843	0.0000	912.0624	912.0624	0.2950		919.4369

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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993

3.9 Vault Structures: Concrete Pour - 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	0.6684	5.7316	7.3208	0.0125		0.2964	0.2964		0.2880	0.2880		1,173.7440	1,173.7440	0.2010		1,178.7690
Total	0.6684	5.7316	7.3208	0.0125		0.2964	0.2964		0.2880	0.2880		1,173.7440	1,173.7440	0.2010		1,178.7690

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	0.0198	0.6719	0.1300	1.9700e-003	0.0437	2.5400e-003	0.0462	0.0120	2.4300e-003	0.0144		208.0324	208.0324	8.9500e-003		208.2562
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	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963
Total	0.0827	0.7294	0.6113	3.1800e-003	0.1714	3.5300e-003	0.1750	0.0459	3.3500e-003	0.0492		328.9156	328.9156	0.0135		329.2525

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	0.6684	5.7316	7.3208	0.0125		0.2964	0.2964		0.2880	0.2880	0.0000	1,173.7440	1,173.7440	0.2010		1,178.7690
Total	0.6684	5.7316	7.3208	0.0125		0.2964	0.2964		0.2880	0.2880	0.0000	1,173.7440	1,173.7440	0.2010		1,178.7690

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	0.0198	0.6719	0.1300	1.9700e-003	0.0437	2.5400e-003	0.0462	0.0120	2.4300e-003	0.0144		208.0324	208.0324	8.9500e-003		208.2562
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	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963
Total	0.0827	0.7294	0.6113	3.1800e-003	0.1714	3.5300e-003	0.1750	0.0459	3.3500e-003	0.0492		328.9156	328.9156	0.0135		329.2525

3.10 Electrical Installation: Electrical conduit - 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	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266		2,164.8232	2,164.8232	0.3754		2,174.2073
Total	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266		2,164.8232	2,164.8232	0.3754		2,174.2073

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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993

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	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266	0.0000	2,164.8232	2,164.8232	0.3754		2,174.2073

Total	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266	0.0000	2,164.823 2	2,164.8232	0.3754		2,174.207 3
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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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993

3.11 Pipe Installation - 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	0.7969	7.2592	9.2727	0.0149		0.3938	0.3938		0.3765	0.3765		1,424.127 7	1,424.1277	0.2931		1,431.454 6
Total	0.7969	7.2592	9.2727	0.0149		0.3938	0.3938		0.3765	0.3765		1,424.127 7	1,424.1277	0.2931		1,431.454 6

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	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963
Total	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963

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	0.7969	7.2592	9.2727	0.0149		0.3938	0.3938		0.3765	0.3765	0.0000	1,424.1277	1,424.1277	0.2931		1,431.4546
Total	0.7969	7.2592	9.2727	0.0149		0.3938	0.3938		0.3765	0.3765	0.0000	1,424.1277	1,424.1277	0.2931		1,431.4546

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	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963
Total	0.0629	0.0576	0.4813	1.2100e-003	0.1277	9.9000e-004	0.1287	0.0339	9.2000e-004	0.0348		120.8832	120.8832	4.5200e-003		120.9963

3.12 Vault Structures: Coanda Screen - 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	0.4752	4.4174	5.8404	8.9900e-003		0.2305	0.2305		0.2132	0.2132		851.6084	851.6084	0.2643		858.2167
Total	0.4752	4.4174	5.8404	8.9900e-003		0.2305	0.2305		0.2132	0.2132		851.6084	851.6084	0.2643		858.2167

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	3.9700e-003	0.1344	0.0260	3.9000e-004	8.7400e-003	5.1000e-004	9.2500e-003	2.4000e-003	4.9000e-004	2.8800e-003		41.6065	41.6065	1.7900e-003		41.6512
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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0165	0.1459	0.1223	6.3000e-004	0.0343	7.1000e-004	0.0350	9.1700e-003	6.7000e-004	9.8400e-003		65.7831	65.7831	2.6900e-003		65.8505

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	0.4752	4.4174	5.8404	8.9900e-003		0.2305	0.2305		0.2132	0.2132	0.0000	851.6084	851.6084	0.2643		858.2167
Total	0.4752	4.4174	5.8404	8.9900e-003		0.2305	0.2305		0.2132	0.2132	0.0000	851.6084	851.6084	0.2643		858.2167

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	3.9700e-003	0.1344	0.0260	3.9000e-004	8.7400e-003	5.1000e-004	9.2500e-003	2.4000e-003	4.9000e-004	2.8800e-003		41.6065	41.6065	1.7900e-003		41.6512
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	0.0126	0.0115	0.0963	2.4000e-004	0.0256	2.0000e-004	0.0257	6.7700e-003	1.8000e-004	6.9600e-003		24.1766	24.1766	9.0000e-004		24.1993
Total	0.0165	0.1459	0.1223	6.3000e-004	0.0343	7.1000e-004	0.0350	9.1700e-003	6.7000e-004	9.8400e-003		65.7831	65.7831	2.6900e-003		65.8505

3.13 Vault Structures: Diversion Pipeline - 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	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266		2,164.8232	2,164.8232	0.3754		2,174.2073
Total	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266		2,164.8232	2,164.8232	0.3754		2,174.2073

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	0.0503	0.0461	0.3850	9.7000e-004	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		96.7066	96.7066	3.6200e-003		96.7970
Total	0.0503	0.0461	0.3850	9.7000e-004	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		96.7066	96.7066	3.6200e-003		96.7970

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	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266	0.0000	2,164.8232	2,164.8232	0.3754		2,174.2073

Total	1.3110	11.4762	14.1146	0.0226		0.6506	0.6506		0.6266	0.6266	0.0000	2,164.823 2	2,164.8232	0.3754		2,174.207 3
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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	0.0503	0.0461	0.3850	9.7000e-004	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		96.7066	96.7066	3.6200e-003		96.7970
Total	0.0503	0.0461	0.3850	9.7000e-004	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		96.7066	96.7066	3.6200e-003		96.7970

3.14 Sediment Control: Pipe Installation - 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	0.8013	7.0871	9.2061	0.0145		0.3893	0.3893		0.3720	0.3720		1,393.756 7	1,393.7567	0.2935		1,401.094 3
Total	0.8013	7.0871	9.2061	0.0145		0.3893	0.3893		0.3720	0.3720		1,393.756 7	1,393.7567	0.2935		1,401.094 3

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	0.0251	0.0230	0.1925	4.9000e-004	0.0511	4.0000e-004	0.0515	0.0136	3.7000e-004	0.0139		48.3533	48.3533	1.8100e-003		48.3985
Total	0.0251	0.0230	0.1925	4.9000e-004	0.0511	4.0000e-004	0.0515	0.0136	3.7000e-004	0.0139		48.3533	48.3533	1.8100e-003		48.3985

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	0.8013	7.0871	9.2061	0.0145		0.3893	0.3893		0.3720	0.3720	0.0000	1,393.7567	1,393.7567	0.2935		1,401.0943
Total	0.8013	7.0871	9.2061	0.0145		0.3893	0.3893		0.3720	0.3720	0.0000	1,393.7567	1,393.7567	0.2935		1,401.0943

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	0.0251	0.0230	0.1925	4.9000e-004	0.0511	4.0000e-004	0.0515	0.0136	3.7000e-004	0.0139		48.3533	48.3533	1.8100e-003		48.3985
Total	0.0251	0.0230	0.1925	4.9000e-004	0.0511	4.0000e-004	0.0515	0.0136	3.7000e-004	0.0139		48.3533	48.3533	1.8100e-003		48.3985

3.15 Install Riprap - 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	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028		300.9001	300.9001	0.0973		303.3330
Total	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028		300.9001	300.9001	0.0973		303.3330

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	3.4000e-003	0.1152	0.0223	3.4000e-004	7.4900e-003	4.4000e-004	7.9300e-003	2.0500e-003	4.2000e-004	2.4700e-003		35.6627	35.6627	1.5300e-003		35.7011
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	0.0503	0.0461	0.3850	9.7000e-004	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		96.7066	96.7066	3.6200e-003		96.7970
Total	0.0537	0.1612	0.4073	1.3100e-003	0.1097	1.2400e-003	0.1109	0.0292	1.1500e-003	0.0303		132.3693	132.3693	5.1500e-003		132.4981

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	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028	0.0000	300.9001	300.9001	0.0973		303.3330
Total	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028	0.0000	300.9001	300.9001	0.0973		303.3330

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	3.4000e-003	0.1152	0.0223	3.4000e-004	7.4900e-003	4.4000e-004	7.9300e-003	2.0500e-003	4.2000e-004	2.4700e-003		35.6627	35.6627	1.5300e-003		35.7011
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	0.0503	0.0461	0.3850	9.7000e-004	0.1022	8.0000e-004	0.1030	0.0271	7.3000e-004	0.0278		96.7066	96.7066	3.6200e-003		96.7970
Total	0.0537	0.1612	0.4073	1.3100e-003	0.1097	1.2400e-003	0.1109	0.0292	1.1500e-003	0.0303		132.3693	132.3693	5.1500e-003		132.4981

3.16 Sediment Control: Backfill Structure - 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	0.4436	3.4061	3.9824	6.9700e-003		0.1874	0.1874		0.1874	0.1874		643.1810	643.1810	0.0397		644.1724
Total	0.4436	3.4061	3.9824	6.9700e-003		0.1874	0.1874		0.1874	0.1874		643.1810	643.1810	0.0397		644.1724

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	0.0119	0.4031	0.0780	1.1800e-003	0.0262	1.5300e-003	0.0277	7.1900e-003	1.4600e-003	8.6500e-003		124.8194	124.8194	5.3700e-003		124.9537
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	0.0377	0.0346	0.2888	7.3000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		72.5299	72.5299	2.7100e-003		72.5978
Total	0.0496	0.4377	0.3668	1.9100e-003	0.1029	2.1300e-003	0.1050	0.0275	2.0100e-003	0.0295		197.3493	197.3493	8.0800e-003		197.5515

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	0.4436	3.4061	3.9824	6.9700e-003		0.1874	0.1874		0.1874	0.1874	0.0000	643.1810	643.1810	0.0397		644.1724

Total	0.4436	3.4061	3.9824	6.9700e-003		0.1874	0.1874		0.1874	0.1874	0.0000	643.1810	643.1810	0.0397		644.1724
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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	0.0119	0.4031	0.0780	1.1800e-003	0.0262	1.5300e-003	0.0277	7.1900e-003	1.4600e-003	8.6500e-003		124.8194	124.8194	5.3700e-003		124.9537
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	0.0377	0.0346	0.2888	7.3000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		72.5299	72.5299	2.7100e-003		72.5978
Total	0.0496	0.4377	0.3668	1.9100e-003	0.1029	2.1300e-003	0.1050	0.0275	2.0100e-003	0.0295		197.3493	197.3493	8.0800e-003		197.5515

3.17 Start up and Testing - 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	0.7319	6.9578	8.2052	0.0128		0.3913	0.3913		0.3734	0.3734		1,224.8347	1,224.8347	0.2264		1,230.4954
Total	0.7319	6.9578	8.2052	0.0128		0.3913	0.3913		0.3734	0.3734		1,224.8347	1,224.8347	0.2264		1,230.4954

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	0.0377	0.0346	0.2888	7.3000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		72.5299	72.5299	2.7100e-003		72.5978
Total	0.0377	0.0346	0.2888	7.3000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		72.5299	72.5299	2.7100e-003		72.5978

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	0.7319	6.9578	8.2052	0.0128		0.3913	0.3913		0.3734	0.3734	0.0000	1,224.8347	1,224.8347	0.2264		1,230.4954
Total	0.7319	6.9578	8.2052	0.0128		0.3913	0.3913		0.3734	0.3734	0.0000	1,224.8347	1,224.8347	0.2264		1,230.4954

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	0.0377	0.0346	0.2888	7.3000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		72.5299	72.5299	2.7100e-003		72.5978
Total	0.0377	0.0346	0.2888	7.3000e-004	0.0766	6.0000e-004	0.0772	0.0203	5.5000e-004	0.0209		72.5299	72.5299	2.7100e-003		72.5978

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.543525	0.028472	0.201539	0.126188	0.021864	0.005301	0.018669	0.039782	0.003072	0.002565	0.007028	0.001098	0.000897

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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
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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	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
Unmitigated	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
Total	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004
Total	0.0324	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.6000e-004	4.6000e-004	0.0000		4.9000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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