

Reed Mine Air Quality Calculations

CalEEMod Assumptions

Project Characteristics

- Air District: Yolo-Solano AQMD
- Windspeed (m/s): 6.8
- Precipitation frequency (days): 55
- CEC Forecasting climate zone: 2
- Land Use Setting: Rural
- Construction Start Date: June 2020
- Operational Year: 2021
- Utility Provider: Not applicable

Land Use

- Land Use Type: Recreational, city park;
Used because it bests reflects the lack of structures and minimal workers on site.
- Size (1,000 sqft): 16,117
- Size (acres): 370

Construction

- 8 construction tasks
- 6 day work weeks

Tasks

- 1.1. Improve access road (phase type: grading)
- 1.2. Grade on-site repository (phase type: grading)
- 1.3. Excavate and haul waste from Area 6 (phase type: grading)
- 1.4. Excavate waste from Area 1 (phase type: grading)
- 1.5. Stabilize Area 2 (phase type: site prep)
- 1.6. Excavate waste from Area 3 (phase type: grading)
- 1.7. Excavate waste from Area 4 (phase type: grading)
- 1.8. Excavate waste from Area 5 (phase type: grading)

Table 1 Construction Phases, Timeframes, and Construction Equipment				
Task	Approximate Start Date	Equipment Type	Amount	Duration (calendar days)
Task 1.1 – Improve access road	June 1, 2020	All terrain vehicle	--	7
		Excavators	1	
		Bulldozer	1	
		Tractors/loaders/backhoes	1	
		Hydro mulcher	1	
		Flatbed truck	--	
		Haul truck	--	
		Large haul/container truck	--	
		Water truck	--	
		Fuel truck	--	
Task 1.2 – Create Onsite Repository	June 8, 2020	All terrain vehicle	--	14
		Excavators	1	
		Bulldozer	1	
		Tractors/loaders/backhoes	1	
		Hydro mulcher	1	
		Flatbed truck	--	
		Haul truck	--	
		Large haul/container truck	--	
		Water truck	--	
		Fuel truck	--	
Task 1.3 – Excavate waste and load from Area 6 and transport to Beatty Landfill	June 22, 2020	All terrain vehicle	--	7
		Excavators	1	
		Bulldozer	1	
		Tractors/loaders/backhoes	1	
		Hydro mulcher	1	
		Flatbed truck	--	
		Haul truck	--	
		Large haul/container truck	--	
		Water truck	--	
		Fuel truck	--	
Task 1.4 – Excavate waste from Area 1	June 29, 2020	All terrain vehicle	--	7
		Excavators	1	
		Bulldozer	1	
		Tractors/loaders/backhoes	1	
		Hydro mulcher	1	
		Flatbed truck	--	
		Haul truck	--	
		Large haul/container truck	--	
		Water truck	--	
		Fuel truck	--	
Task 1.5 – Site prep for Area 2	July 6, 2020	Tractors/loaders/backhoes	1	7
Task 1.6 – Excavate waste from Area 3	July 13, 2020	All terrain vehicle	--	14
		Excavators	1	
		Bulldozer	1	
		Tractors/loaders/backhoes	1	
		Hydro mulcher	1	
		Flatbed truck	--	
		Haul truck	--	

Table 1 Construction Phases, Timeframes, and Construction Equipment				
Task	Approximate Start Date	Equipment Type	Amount	Duration (calendar days)
		Large haul/container truck	--	
		Water truck	--	
		Fuel truck	--	
Task 1.7 Excavate waste from Area 4	July 27, 2020	All terrain vehicle	--	7
		Excavators	1	
		Bulldozer	1	
		Tractors/loaders/backhoes	1	
		Hydro mulcher	1	
		Flatbed truck	--	
		Haul truck	--	
		Large haul/container truck	--	
		Water truck	--	
		Fuel truck	--	
Task 1.8 – Excavate waste from Area 5	August 3, 2020	All terrain vehicle	--	7
		Excavators	1	
		Bulldozer	1	
		Tractors/loaders/backhoes	1	
		Hydro mulcher	1	
		Flatbed truck	--	
		Haul truck	--	
		Large haul/container truck	--	
		Water truck	--	
		Fuel truck	--	

-- Equipment use is measured in distance (miles) rather than the number of pieces used; refer to trips and VMT details

Material Import/Export and Grading

- Grading area (acres):
 - 350-ft and 1,776-ft access road to be constructed at Area 6
 - 14 ft wide, $4,900 + 24,864 = 29,764$ sqft = 0.683 acre
 - 1.5 miles existing haul route- improvements needed
 - 14 feet wide, 2.55 acres
 - 2,162 sqft (0.0496 acre) repository area to be graded

Table 2 Material Import/Export and Grading			
Task	Material Imported (cubic yards)	Material Exported (cubic yards)	Total Acres Graded
1.1, Road Improvements	50	0	3.233
1.2, Repository	50	0	0.0496
1.3, Area 6	50	150	0.943
1.4, Area 1	431	575	0.055
1.5, Area 2	0	0	0
1.6, Area 3	1,088	1,450	0.270
1.7, Area 4	323	430	0.137
1.8, Area 5	576	730	0.245

1. Material import/export are not phased (same truck that arrives with material departs with another load of material to export in one round trip or two one-way trips)
2. Material import for Areas 1, 3, 4, 5 would be 75% of the export material

Trips and Vehicle Miles Traveled (VMT)

Worker Trips:

- Average trip distance, 18 miles from Lower Lake to Pick and Shovel Gate
- Two trips per day

Vendor Trips:

- 1 water truck, stays on-site
- 1 fuel truck, 2 one-way trips per day (none for Area 2)

Haul Trips:

- On-site haul trips:
 - 0.25 mile from Area 1
 - 1 mile from Area 3
 - 1 mile from Area 4
 - 17 yd³ capacity
- To Beatty Landfill- 550 miles one-way
 - For Beatty assume 40 yd³ capacity
- Import material is all 1 mile away
 - Instead of doubling trips to count import emissions, added 1 mile to all distances

Table 3 Trips and VMT							
Task	# Workers	# Trips Worker (/day)	# Trips Vendor (/day)	Total # Haul Trips	Trip Length Worker (miles)	Trip length Vendor (miles)	Trip Length Hauling (miles)
1.1	12	24	3	6	18	9 (default)	20 (default)
1.2	12	24	3	6	18	9 (default)	20 (default)
1.3	12	24	3	18	18	9 (default)	551
1.4	12	24	3	70	18	9 (default)	1.25
1.5	4	8	3	0	18	9 (default)	0
1.6	12	24	3	174	18	9 (default)	2
1.7	12	24	3	52	18	9 (default)	2
1.8	12	24	3	88	18	9 (default)	551

1. CalEEMod default values were used when information was not available

Fugitive Dust

Table 4 Percent Paved Roads			
Task	Worker (%)	Vendor (%)	Hauling (%)
1.1	100	50	80
1.2	100	50	80
1.3	100	50	99.8
1.4	100	50	0
1.5	100	50	0
1.6	100	50	0
1.7	100	50	0
1.8	100	50	99.8

Operation and Maintenance

- Includes monitoring and some erosion controls repairs, tracked as vehicle trips, assume no off-road vehicles needed
- 2 inspections per year, 9 miles one-way, pickup truck
 - 0.0000148 trips (/day/acre)

Mitigation Measures

- Vehicle speed (mph): 15
- Water exposed area: twice daily, 55% reduction

- Replace ground cover: 15% reduction (from South Coast AQMD)

Output

Table 5 Construction Emissions Estimates with Mitigation and Comparison to Thresholds			
Pollutant	Threshold of Significance	Construction Emissions	Exceeds?
ROG	10 tons/year	0.07 tons total	No
NOx	10 tons/year	0.86 tons total	No
PM ₁₀	80 lb/day	49.39 lb/day maximum	No
CO	Violation of a state ambient air quality standard for CO	36.96 lb/day maximum	See Table 7
CO ₂ e	None	166.5 MT/year	-

AERSCREEN Assumptions

Table 6 AERSCREEN Inputs		
Field	Input	Notes
Title	Reed Mine	
Units	M	Metric units
Source Type	A	Area source
DPM Emission Rate (g/s)	0.194 g/s	Table 5
Release Height Above Ground (m)	3.048	Release height for trucks is about 10 feet, BAAQMD 2012
Max Horizontal Dimension of Area Source (m)	50	Approximate dimensions of one remediation area
Min Horizontal Dimension of Area Source (m)	50	
Initial Vertical Dimension (m)	1.4	BAAQMD, SF DPH & SF Planning, 2012
Rural/Urban	rural	
Min Distance to Ambient Air (m)	1	Default
NO2 Chemistry	1	Not Applicable
Probe Distance (m)	5000	Default
Include Discrete Receptors	no	
Use Flagpole Receptors	no	

Table 6 AERSCREEN Inputs		
Field	Input	Notes
Source Elevation (m)	0	Default
Min Ambient Temp (Kelvin)	250	Default
Max Ambient Temp (Kelvin)	310	Default
Min Wind Speed (m/s)	0.5	Default
Anemometer Height (m)	10	Default
Surface Characteristics	2	AERMET Seasonal Tables
Dominant Surface Profile	Grassland	
Dominant Climate Profile	3	Dry Conditions
Adjust	no	
Debug	no	

Table 7 Maximum CO Concentrations and Comparison to Thresholds				
Unit	1-hour Threshold of Significance	1-hour Concentration	8-hour Threshold of Significance	8-hour Concentration ¹
µg/m ³	23,000	1,870	10,000	1,178
mg/m ³	23	1.87	10	1.178
ppm	20	1.52	9	1.37
	Exceeds?	No	Exceeds?	No

1. 8-hour concentrations calculated from a fixed ratio of 0.90 for AERSCREEN

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Reed Mine and Upper Davis Creek Remediation Project
Yolo/Solano AQMD Air District, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	370.00	Acre	370.00	16,117,200.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	55
Climate Zone	2			Operational Year	2021
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

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Project Characteristics - Reed Mine and Upper Davis Creek Remediation Project

Land Use - Closest land use type because no buildings and minimal workers

Construction Phase - 1-2 weeks of construction per area

Off-road Equipment - Other equipment - hydromulcher

Trips and VMT - Beatty landfill 550 miles away; fill site 1 mile away

On-road Fugitive Dust - Worker commute from Lower Lake to Pick and Shovel Gate; trips to Beatty mostly paved

Grading - Grading area is the acreage of each remediation area

Vehicle Trips - 2 inspections per year

Consumer Products - NA

Energy Use -

Water And Wastewater - NA

Solid Waste - NA

Construction Off-road Equipment Mitigation - Per mitigation Air-1

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Minimal site prep; remaining tasks at Area 2 to be completed with hand tools

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	620.00	14.00
tblConstructionPhase	NumDays	620.00	7.00
tblConstructionPhase	NumDays	620.00	7.00

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tblConstructionPhase	NumDays	620.00	7.00
tblConstructionPhase	NumDays	620.00	14.00
tblConstructionPhase	NumDays	620.00	7.00
tblConstructionPhase	NumDays	620.00	7.00
tblConstructionPhase	NumDays	240.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	9/15/2023	6/23/2020
tblConstructionPhase	PhaseEndDate	1/30/2026	6/29/2020
tblConstructionPhase	PhaseEndDate	6/16/2028	6/8/2020
tblConstructionPhase	PhaseEndDate	11/1/2030	7/6/2020
tblConstructionPhase	PhaseEndDate	3/18/2033	7/28/2020
tblConstructionPhase	PhaseEndDate	8/3/2035	8/3/2020
tblConstructionPhase	PhaseEndDate	12/18/2037	8/10/2020
tblConstructionPhase	PhaseEndDate	4/30/2021	7/13/2020
tblConstructionPhase	PhaseStartDate	5/1/2021	6/8/2020
tblConstructionPhase	PhaseStartDate	9/16/2023	6/22/2020
tblConstructionPhase	PhaseStartDate	1/31/2026	6/1/2020
tblConstructionPhase	PhaseStartDate	6/17/2028	6/29/2020
tblConstructionPhase	PhaseStartDate	11/2/2030	7/13/2020
tblConstructionPhase	PhaseStartDate	3/19/2033	7/27/2020

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tblConstructionPhase	PhaseStartDate	8/4/2035	8/3/2020
tblConstructionPhase	PhaseStartDate	6/1/2020	7/6/2020
tblConsumerProducts	ROG_EF	2.14E-05	2E-07
tblGrading	AcresOfGrading	0.00	0.05
tblGrading	AcresOfGrading	0.00	0.94
tblGrading	AcresOfGrading	0.00	3.23
tblGrading	AcresOfGrading	0.00	0.06
tblGrading	AcresOfGrading	0.00	0.27
tblGrading	AcresOfGrading	0.00	0.14
tblGrading	AcresOfGrading	0.00	0.25
tblGrading	MaterialExported	0.00	150.00
tblGrading	MaterialExported	0.00	575.00
tblGrading	MaterialExported	0.00	1,450.00
tblGrading	MaterialExported	0.00	430.00
tblGrading	MaterialExported	0.00	730.00
tblGrading	MaterialImported	0.00	50.00
tblGrading	MaterialImported	0.00	50.00
tblGrading	MaterialImported	0.00	50.00
tblGrading	MaterialImported	0.00	431.00
tblGrading	MaterialImported	0.00	1,088.00
tblGrading	MaterialImported	0.00	323.00
tblGrading	MaterialImported	0.00	576.00
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment

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tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	31.82	0.00
tblTripsAndVMT	HaulingTripLength	20.00	551.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
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tblTripsAndVMT	HaulingTripLength	20.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	551.00
tblTripsAndVMT	HaulingTripNumber	25.00	18.00
tblTripsAndVMT	HaulingTripNumber	126.00	70.00
tblTripsAndVMT	HaulingTripNumber	317.00	174.00
tblTripsAndVMT	HaulingTripNumber	94.00	52.00
tblTripsAndVMT	HaulingTripNumber	163.00	88.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
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tblTripsAndVMT	WorkerTripLength	15.00	18.00
tblTripsAndVMT	WorkerTripLength	15.00	18.00
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tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	440,848,099.37	0.00

2.0 Emissions Summary

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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					
2020	0.0701	0.8570	0.4584	1.8000e-003	1.2603	0.0322	1.2925	0.2174	0.0297	0.2471			166.0491	0.0192	0.0000	166.5285
Maximum	0.0701	0.8570	0.4584	1.8000e-003	1.2603	0.0322	1.2925	0.2174	0.0297	0.2471			166.0491	0.0192	0.0000	166.5285

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0701	0.8570	0.4584	1.8000e-003	0.5517	0.0322	0.5839	0.1127	0.0297	0.1424			166.0491	0.0192	0.0000	166.5284
Maximum	0.0701	0.8570	0.4584	1.8000e-003	0.5517	0.0322	0.5839	0.1127	0.0297	0.1424			166.0491	0.0192	0.0000	166.5284

	ROG	NOx	CO	SO2	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	56.23	0.00	54.83	48.15	0.00	42.36	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2020	8-31-2020	0.8944	0.8944
		Highest	0.8944	0.8944

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1519	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Waste						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
Total	0.1519	3.0000e-005	3.4100e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1519	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Waste						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
Total	0.1519	3.0000e-005	3.4100e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003

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

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	1.1 Improve access road	Grading	6/1/2020	6/8/2020	6	7	
2	1.2 Grade repository	Grading	6/8/2020	6/23/2020	6	14	
3	1.3 Excavate waste from Area 6	Grading	6/22/2020	6/29/2020	6	7	
4	1.4 Excavate waste from Area 1	Grading	6/29/2020	7/6/2020	6	7	
5	1.5 Site prep for Area 2	Site Preparation	7/6/2020	7/13/2020	6	7	
6	1.6 Excavate waste from Area 3	Grading	7/13/2020	7/28/2020	6	14	
7	1.7 Excavate waste from Area 4	Grading	7/27/2020	8/3/2020	6	7	
8	1.8 Excavate waste from Area 5	Grading	8/3/2020	8/10/2020	6	7	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1.2 Grade repository	Excavators	1	8.00	158	0.38
1.2 Grade repository	Graders	0	8.00	187	0.41
1.1 Improve access road	Other General Industrial Equipment	1	8.00	88	0.34
1.2 Grade repository	Rubber Tired Dozers	1	8.00	247	0.40
1.2 Grade repository	Scrapers	0	8.00	367	0.48
1.2 Grade repository	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.3 Excavate waste from Area 6	Excavators	1	8.00	158	0.38
1.3 Excavate waste from Area 6	Graders	0	8.00	187	0.41

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1.2 Grade repository	Other General Industrial Equipment	1	8.00	88	0.34
1.3 Excavate waste from Area 6	Rubber Tired Dozers	1	8.00	247	0.40
1.3 Excavate waste from Area 6	Scrapers	0	8.00	367	0.48
1.3 Excavate waste from Area 6	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.1 Improve access road	Excavators	1	8.00	158	0.38
1.1 Improve access road	Graders	0	8.00	187	0.41
1.3 Excavate waste from Area 6	Other General Industrial Equipment	1	8.00	88	0.34
1.1 Improve access road	Rubber Tired Dozers	1	8.00	247	0.40
1.1 Improve access road	Scrapers	0	8.00	367	0.48
1.1 Improve access road	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.4 Excavate waste from Area 1	Excavators	1	8.00	158	0.38
1.4 Excavate waste from Area 1	Graders	0	8.00	187	0.41
1.4 Excavate waste from Area 1	Other General Industrial Equipment	1	8.00	88	0.34
1.4 Excavate waste from Area 1	Rubber Tired Dozers	1	8.00	247	0.40
1.4 Excavate waste from Area 1	Scrapers	0	8.00	367	0.48
1.4 Excavate waste from Area 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.5 Site prep for Area 2	Rubber Tired Dozers	0	8.00	247	0.40
1.5 Site prep for Area 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.6 Excavate waste from Area 3	Excavators	1	8.00	158	0.38
1.6 Excavate waste from Area 3	Graders	0	8.00	187	0.41
1.6 Excavate waste from Area 3	Other General Industrial Equipment	1	8.00	88	0.34
1.6 Excavate waste from Area 3	Rubber Tired Dozers	1	8.00	247	0.40
1.6 Excavate waste from Area 3	Scrapers	0	8.00	367	0.48
1.6 Excavate waste from Area 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.7 Excavate waste from Area 4	Excavators	1	8.00	158	0.38
1.7 Excavate waste from Area 4	Graders	0	8.00	187	0.41
1.7 Excavate waste from Area 4	Other General Industrial Equipment	1	8.00	88	0.34

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1.7 Excavate waste from Area 4	Rubber Tired Dozers	1	8.00	247	0.40
1.7 Excavate waste from Area 4	Scrapers	0	8.00	367	0.48
1.7 Excavate waste from Area 4	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.8 Excavate waste from Area 5	Excavators	1	8.00	158	0.38
1.8 Excavate waste from Area 5	Graders	0	8.00	187	0.41
1.8 Excavate waste from Area 5	Other General Industrial Equipment	1	8.00	88	0.34
1.8 Excavate waste from Area 5	Rubber Tired Dozers	1	8.00	247	0.40
1.8 Excavate waste from Area 5	Scrapers	0	8.00	367	0.48
1.8 Excavate waste from Area 5	Tractors/Loaders/Backhoes	1	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
1.2 Grade repository	4	24.00	3.00	6.00	18.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
1.3 Excavate waste from Area 6	4	24.00	3.00	18.00	18.00	9.00	551.00	LD_Mix	HDT_Mix	HHDT
1.1 Improve access road	4	24.00	3.00	6.00	18.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
1.4 Excavate waste from Area 1	4	24.00	3.00	70.00	18.00	9.00	1.25	LD_Mix	HDT_Mix	HHDT
1.5 Site prep for Area 2	1	8.00	3.00	0.00	18.00	9.00	0.00	LD_Mix	HDT_Mix	HHDT
1.6 Excavate waste from Area 3	4	24.00	3.00	174.00	18.00	9.00	2.00	LD_Mix	HDT_Mix	HHDT
1.7 Excavate waste from Area 4	4	24.00	3.00	52.00	18.00	9.00	2.00	LD_Mix	HDT_Mix	HHDT
1.8 Excavate waste from Area 5	4	24.00	3.00	88.00	18.00	9.00	551.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 1.1 Improve access road - 2020**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					0.0228	0.0000	0.0228	0.0118	0.0000	0.0118			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	0.0228	3.3600e-003	0.0262	0.0118	3.0900e-003	0.0149			5.9574	1.9300e-003	0.0000	6.0055

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	1.3000e-004	0.0000	0.0150	0.0000	0.0151	1.5100e-003	0.0000	1.5100e-003			0.2334	1.0000e-005	0.0000	0.2336
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0591	1.0000e-005	0.0591	5.9100e-003	1.0000e-005	5.9200e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	5.2000e-004	2.4700e-003	3.6900e-003	1.0000e-005	0.0753	2.0000e-005	0.0753	7.7200e-003	2.0000e-005	7.7300e-003			1.5722	5.0000e-005	0.0000	1.5734

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3.2 1.1 Improve access road - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.7200e-003	0.0000	8.7200e-003	4.5000e-003	0.0000	4.5000e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	8.7200e-003	3.3600e-003	0.0121	4.5000e-003	3.0900e-003	7.5900e-003			5.9574	1.9300e-003	0.0000	6.0055

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	1.3000e-004	0.0000	6.4700e-003	0.0000	6.4700e-003	9.3000e-004	0.0000	9.3000e-004			0.2334	1.0000e-005	0.0000	0.2336
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0254	1.0000e-005	0.0254	3.6200e-003	1.0000e-005	3.6300e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	5.2000e-004	2.4700e-003	3.6900e-003	1.0000e-005	0.0330	2.0000e-005	0.0330	4.8500e-003	2.0000e-005	4.8600e-003			1.5722	5.0000e-005	0.0000	1.5734

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3.3 1.2 Grade repository - 2020**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					0.0422	0.0000	0.0422	0.0232	0.0000	0.0232			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1260	0.0817	1.4000e-004		6.7300e-003	6.7300e-003		6.1900e-003	6.1900e-003			11.9147	3.8500e-003	0.0000	12.0111
Total	0.0124	0.1260	0.0817	1.4000e-004	0.0422	6.7300e-003	0.0489	0.0232	6.1900e-003	0.0294			11.9147	3.8500e-003	0.0000	12.0111

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	1.3000e-004	0.0000	0.0150	0.0000	0.0151	1.5100e-003	0.0000	1.5100e-003			0.2334	1.0000e-005	0.0000	0.2336
Vendor	9.0000e-005	2.6700e-003	5.3000e-004	1.0000e-005	0.1182	1.0000e-005	0.1182	0.0118	1.0000e-005	0.0118			0.6766	3.0000e-005	0.0000	0.6775
Worker	9.2000e-004	6.7000e-004	6.5900e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.0000e-004			2.0010	5.0000e-005	0.0000	2.0022
Total	1.0300e-003	4.1500e-003	7.2500e-003	3.0000e-005	0.1355	2.0000e-005	0.1355	0.0139	2.0000e-005	0.0139			2.9110	9.0000e-005	0.0000	2.9133

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3.3 1.2 Grade repository - 2020**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					0.0161	0.0000	0.0161	8.8600e-003	0.0000	8.8600e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1260	0.0817	1.4000e-004		6.7300e-003	6.7300e-003		6.1900e-003	6.1900e-003			11.9147	3.8500e-003	0.0000	12.0110
Total	0.0124	0.1260	0.0817	1.4000e-004	0.0161	6.7300e-003	0.0229	8.8600e-003	6.1900e-003	0.0151			11.9147	3.8500e-003	0.0000	12.0110

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	1.3000e-004	0.0000	6.4700e-003	0.0000	6.4700e-003	9.3000e-004	0.0000	9.3000e-004			0.2334	1.0000e-005	0.0000	0.2336
Vendor	9.0000e-005	2.6700e-003	5.3000e-004	1.0000e-005	0.0507	1.0000e-005	0.0508	7.2400e-003	1.0000e-005	7.2500e-003			0.6766	3.0000e-005	0.0000	0.6775
Worker	9.2000e-004	6.7000e-004	6.5900e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.0000e-004			2.0010	5.0000e-005	0.0000	2.0022
Total	1.0300e-003	4.1500e-003	7.2500e-003	3.0000e-005	0.0594	2.0000e-005	0.0595	8.7600e-003	2.0000e-005	8.7800e-003			2.9110	9.0000e-005	0.0000	2.9133

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3.4 1.3 Excavate waste from Area 6 - 2020**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					0.0216	0.0000	0.0216	0.0117	0.0000	0.0117			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	0.0216	3.3600e-003	0.0250	0.0117	3.0900e-003	0.0147			5.9574	1.9300e-003	0.0000	6.0055

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	1.4400e-003	0.0419	7.9600e-003	1.7000e-004	0.0166	2.2000e-004	0.0168	2.3900e-003	2.1000e-004	2.6000e-003			16.2195	1.2000e-004	0.0000	16.2224
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0591	1.0000e-005	0.0591	5.9100e-003	1.0000e-005	5.9200e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	1.9400e-003	0.0436	0.0115	1.8000e-004	0.0768	2.4000e-004	0.0771	8.6000e-003	2.3000e-004	8.8200e-003			17.5583	1.6000e-004	0.0000	17.5622

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3.4 1.3 Excavate waste from Area 6 - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.2700e-003	0.0000	8.2700e-003	4.4500e-003	0.0000	4.4500e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	8.2700e-003	3.3600e-003	0.0116	4.4500e-003	3.0900e-003	7.5400e-003			5.9574	1.9300e-003	0.0000	6.0055

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	1.4400e-003	0.0419	7.9600e-003	1.7000e-004	9.5100e-003	2.2000e-004	9.7300e-003	1.9100e-003	2.1000e-004	2.1200e-003			16.2195	1.2000e-004	0.0000	16.2224
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0254	1.0000e-005	0.0254	3.6200e-003	1.0000e-005	3.6300e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	1.9400e-003	0.0436	0.0115	1.8000e-004	0.0360	2.4000e-004	0.0362	5.8300e-003	2.3000e-004	6.0500e-003			17.5583	1.6000e-004	0.0000	17.5622

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3.5 1.4 Excavate waste from Area 1 - 2020**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					0.0214	0.0000	0.0214	0.0116	0.0000	0.0116			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	0.0214	3.3600e-003	0.0247	0.0116	3.0900e-003	0.0147			5.9574	1.9300e-003	0.0000	6.0055

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	9.0000e-005	4.0400e-003	5.1000e-004	1.0000e-005	0.0547	0.0000	0.0547	5.4600e-003	0.0000	5.4700e-003			0.5913	1.0000e-004	0.0000	0.5938
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0591	1.0000e-005	0.0591	5.9100e-003	1.0000e-005	5.9200e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	5.9000e-004	5.7000e-003	4.0700e-003	2.0000e-005	0.1149	2.0000e-005	0.1149	0.0117	2.0000e-005	0.0117			1.9301	1.4000e-004	0.0000	1.9336

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3.5 1.4 Excavate waste from Area 1 - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.1700e-003	0.0000	8.1700e-003	4.4500e-003	0.0000	4.4500e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	8.1700e-003	3.3600e-003	0.0115	4.4500e-003	3.0900e-003	7.5400e-003			5.9574	1.9300e-003	0.0000	6.0055

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	9.0000e-005	4.0400e-003	5.1000e-004	1.0000e-005	0.0235	0.0000	0.0235	3.3400e-003	0.0000	3.3400e-003			0.5913	1.0000e-004	0.0000	0.5938
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0254	1.0000e-005	0.0254	3.6200e-003	1.0000e-005	3.6300e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	5.9000e-004	5.7000e-003	4.0700e-003	2.0000e-005	0.0499	2.0000e-005	0.0499	7.2600e-003	2.0000e-005	7.2700e-003			1.9301	1.4000e-004	0.0000	1.9336

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3.6 1.5 Site prep for Area 2 - 2020**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
Off-Road	7.3000e-004	7.3700e-003	7.9800e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.3000e-004	4.3000e-004			0.9550	3.1000e-004	0.0000	0.9627
Total	7.3000e-004	7.3700e-003	7.9800e-003	1.0000e-005	0.0000	4.7000e-004	4.7000e-004	0.0000	4.3000e-004	4.3000e-004			0.9550	3.1000e-004	0.0000	0.9627

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
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0591	1.0000e-005	0.0591	5.9100e-003	1.0000e-005	5.9200e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	1.5000e-004	1.1000e-004	1.1000e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004			0.3335	1.0000e-005	0.0000	0.3337
Total	1.9000e-004	1.4400e-003	1.3700e-003	0.0000	0.0595	1.0000e-005	0.0595	6.0100e-003	1.0000e-005	6.0200e-003			0.6718	3.0000e-005	0.0000	0.6725

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3.6 1.5 Site prep for Area 2 - 2020**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
Off-Road	7.3000e-004	7.3700e-003	7.9800e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.3000e-004	4.3000e-004			0.9550	3.1000e-004	0.0000	0.9627
Total	7.3000e-004	7.3700e-003	7.9800e-003	1.0000e-005	0.0000	4.7000e-004	4.7000e-004	0.0000	4.3000e-004	4.3000e-004			0.9550	3.1000e-004	0.0000	0.9627

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
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0254	1.0000e-005	0.0254	3.6200e-003	1.0000e-005	3.6300e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	1.5000e-004	1.1000e-004	1.1000e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004			0.3335	1.0000e-005	0.0000	0.3337
Total	1.9000e-004	1.4400e-003	1.3700e-003	0.0000	0.0257	1.0000e-005	0.0257	3.7200e-003	1.0000e-005	3.7300e-003			0.6718	3.0000e-005	0.0000	0.6725

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3.7 1.6 Excavate waste from Area 3 - 2020**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					0.0429	0.0000	0.0429	0.0233	0.0000	0.0233			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1260	0.0817	1.4000e-004		6.7300e-003	6.7300e-003		6.1900e-003	6.1900e-003			11.9147	3.8500e-003	0.0000	12.0111
Total	0.0124	0.1260	0.0817	1.4000e-004	0.0429	6.7300e-003	0.0497	0.0233	6.1900e-003	0.0295			11.9147	3.8500e-003	0.0000	12.0111

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	2.5000e-004	0.0106	1.3600e-003	2.0000e-005	0.2175	2.0000e-005	0.2175	0.0217	1.0000e-005	0.0217			1.6816	2.5000e-004	0.0000	1.6878
Vendor	9.0000e-005	2.6700e-003	5.3000e-004	1.0000e-005	0.1182	1.0000e-005	0.1182	0.0118	1.0000e-005	0.0118			0.6766	3.0000e-005	0.0000	0.6775
Worker	9.2000e-004	6.7000e-004	6.5900e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.0000e-004			2.0010	5.0000e-005	0.0000	2.0022
Total	1.2600e-003	0.0139	8.4800e-003	5.0000e-005	0.3380	4.0000e-005	0.3380	0.0341	3.0000e-005	0.0342			4.3592	3.3000e-004	0.0000	4.3675

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3.7 1.6 Excavate waste from Area 3 - 2020**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					0.0164	0.0000	0.0164	8.9100e-003	0.0000	8.9100e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1260	0.0817	1.4000e-004		6.7300e-003	6.7300e-003		6.1900e-003	6.1900e-003			11.9147	3.8500e-003	0.0000	12.0110
Total	0.0124	0.1260	0.0817	1.4000e-004	0.0164	6.7300e-003	0.0232	8.9100e-003	6.1900e-003	0.0151			11.9147	3.8500e-003	0.0000	12.0110

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	2.5000e-004	0.0106	1.3600e-003	2.0000e-005	0.0933	2.0000e-005	0.0933	0.0133	1.0000e-005	0.0133			1.6816	2.5000e-004	0.0000	1.6878
Vendor	9.0000e-005	2.6700e-003	5.3000e-004	1.0000e-005	0.0507	1.0000e-005	0.0508	7.2400e-003	1.0000e-005	7.2500e-003			0.6766	3.0000e-005	0.0000	0.6775
Worker	9.2000e-004	6.7000e-004	6.5900e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.0000e-004			2.0010	5.0000e-005	0.0000	2.0022
Total	1.2600e-003	0.0139	8.4800e-003	5.0000e-005	0.1462	4.0000e-005	0.1463	0.0211	3.0000e-005	0.0212			4.3592	3.3000e-004	0.0000	4.3675

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3.8 1.7 Excavate waste from Area 4 - 2020**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					0.0213	0.0000	0.0213	0.0116	0.0000	0.0116			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	0.0213	3.3600e-003	0.0247	0.0116	3.0900e-003	0.0147			5.9574	1.9300e-003	0.0000	6.0055

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.1700e-003	4.1000e-004	1.0000e-005	0.0650	0.0000	0.0650	6.4900e-003	0.0000	6.4900e-003			0.5025	7.0000e-005	0.0000	0.5044
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0591	1.0000e-005	0.0591	5.9100e-003	1.0000e-005	5.9200e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	5.7000e-004	4.8300e-003	3.9700e-003	2.0000e-005	0.1252	2.0000e-005	0.1253	0.0127	2.0000e-005	0.0127			1.8413	1.1000e-004	0.0000	1.8443

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3.8 1.7 Excavate waste from Area 4 - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.1600e-003	0.0000	8.1600e-003	4.4500e-003	0.0000	4.4500e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	8.1600e-003	3.3600e-003	0.0115	4.4500e-003	3.0900e-003	7.5400e-003			5.9574	1.9300e-003	0.0000	6.0055

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.1700e-003	4.1000e-004	1.0000e-005	0.0279	0.0000	0.0279	3.9700e-003	0.0000	3.9700e-003			0.5025	7.0000e-005	0.0000	0.5044
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0254	1.0000e-005	0.0254	3.6200e-003	1.0000e-005	3.6300e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	5.7000e-004	4.8300e-003	3.9700e-003	2.0000e-005	0.0544	2.0000e-005	0.0544	7.8900e-003	2.0000e-005	7.9000e-003			1.8413	1.1000e-004	0.0000	1.8443

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3.9 1.8 Excavate waste from Area 5 - 2020**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					0.0215	0.0000	0.0215	0.0117	0.0000	0.0117			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	0.0215	3.3600e-003	0.0249	0.0117	3.0900e-003	0.0147			5.9574	1.9300e-003	0.0000	6.0055

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0200e-003	0.2051	0.0389	8.3000e-004	0.0811	1.0700e-003	0.0822	0.0117	1.0200e-003	0.0127			79.2953	5.6000e-004	0.0000	79.3094
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0591	1.0000e-005	0.0591	5.9100e-003	1.0000e-005	5.9200e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	7.5200e-003	0.2067	0.0425	8.4000e-004	0.1414	1.0900e-003	0.1424	0.0179	1.0400e-003	0.0189			80.6341	6.0000e-004	0.0000	80.6493

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3.9 1.8 Excavate waste from Area 5 - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.2400e-003	0.0000	8.2400e-003	4.4600e-003	0.0000	4.4600e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1900e-003	0.0630	0.0408	7.0000e-005		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003			5.9574	1.9300e-003	0.0000	6.0055
Total	6.1900e-003	0.0630	0.0408	7.0000e-005	8.2400e-003	3.3600e-003	0.0116	4.4600e-003	3.0900e-003	7.5500e-003			5.9574	1.9300e-003	0.0000	6.0055

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0200e-003	0.2051	0.0389	8.3000e-004	0.0465	1.0700e-003	0.0476	9.3400e-003	1.0200e-003	0.0104			79.2953	5.6000e-004	0.0000	79.3094
Vendor	4.0000e-005	1.3300e-003	2.7000e-004	0.0000	0.0254	1.0000e-005	0.0254	3.6200e-003	1.0000e-005	3.6300e-003			0.3383	2.0000e-005	0.0000	0.3388
Worker	4.6000e-004	3.3000e-004	3.2900e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004			1.0005	2.0000e-005	0.0000	1.0011
Total	7.5200e-003	0.2067	0.0425	8.4000e-004	0.0730	1.0900e-003	0.0741	0.0133	1.0400e-003	0.0143			80.6341	6.0000e-004	0.0000	80.6493

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	15.00	8.00	9.00	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.520277	0.038864	0.193543	0.118146	0.022917	0.005635	0.034518	0.053912	0.001336	0.002070	0.007104	0.000691	0.000987

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Annual

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					
City Park	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
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

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					
City Park	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
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

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	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			
City Park	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**

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1519	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003
Unmitigated	0.1519	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1515					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003
Total	0.1519	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Annual

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1515					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003
Total	0.1519	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			6.6100e-003	2.0000e-005	0.0000	7.0500e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Annual

	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			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	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

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	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			
City Park	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
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Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Annual

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

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

Reed Mine and Upper Davis Creek Remediation Project
Yolo/Solano AQMD Air District, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	370.00	Acre	370.00	16,117,200.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	55
Climate Zone	2			Operational Year	2021
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

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

Project Characteristics - Reed Mine and Upper Davis Creek Remediation Project

Land Use - Closest land use type because no buildings and minimal workers

Construction Phase - 1-2 weeks of construction per area

Off-road Equipment - Other equipment - hydromulcher

Trips and VMT - Beatty landfill 550 miles away; fill site 1 mile away

On-road Fugitive Dust - Worker commute from Lower Lake to Pick and Shovel Gate; trips to Beatty mostly paved

Grading - Grading area is the acreage of each remediation area

Vehicle Trips - 2 inspections per year

Consumer Products - NA

Energy Use -

Water And Wastewater - NA

Solid Waste - NA

Construction Off-road Equipment Mitigation - Per mitigation Air-1

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Minimal site prep; remaining tasks at Area 2 to be completed with hand tools

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Off-road Equipment - Other equipment- hydro mulcher

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	620.00	14.00
tblConstructionPhase	NumDays	620.00	7.00
tblConstructionPhase	NumDays	620.00	7.00

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

tblConstructionPhase	NumDays	620.00	7.00
tblConstructionPhase	NumDays	620.00	14.00
tblConstructionPhase	NumDays	620.00	7.00
tblConstructionPhase	NumDays	620.00	7.00
tblConstructionPhase	NumDays	240.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	9/15/2023	6/23/2020
tblConstructionPhase	PhaseEndDate	1/30/2026	6/29/2020
tblConstructionPhase	PhaseEndDate	6/16/2028	6/8/2020
tblConstructionPhase	PhaseEndDate	11/1/2030	7/6/2020
tblConstructionPhase	PhaseEndDate	3/18/2033	7/28/2020
tblConstructionPhase	PhaseEndDate	8/3/2035	8/3/2020
tblConstructionPhase	PhaseEndDate	12/18/2037	8/10/2020
tblConstructionPhase	PhaseEndDate	4/30/2021	7/13/2020
tblConstructionPhase	PhaseStartDate	5/1/2021	6/8/2020
tblConstructionPhase	PhaseStartDate	9/16/2023	6/22/2020
tblConstructionPhase	PhaseStartDate	1/31/2026	6/1/2020
tblConstructionPhase	PhaseStartDate	6/17/2028	6/29/2020
tblConstructionPhase	PhaseStartDate	11/2/2030	7/13/2020
tblConstructionPhase	PhaseStartDate	3/19/2033	7/27/2020

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

tblConstructionPhase	PhaseStartDate	8/4/2035	8/3/2020
tblConstructionPhase	PhaseStartDate	6/1/2020	7/6/2020
tblConsumerProducts	ROG_EF	2.14E-05	2E-07
tblGrading	AcresOfGrading	0.00	0.05
tblGrading	AcresOfGrading	0.00	0.94
tblGrading	AcresOfGrading	0.00	3.23
tblGrading	AcresOfGrading	0.00	0.06
tblGrading	AcresOfGrading	0.00	0.27
tblGrading	AcresOfGrading	0.00	0.14
tblGrading	AcresOfGrading	0.00	0.25
tblGrading	MaterialExported	0.00	150.00
tblGrading	MaterialExported	0.00	575.00
tblGrading	MaterialExported	0.00	1,450.00
tblGrading	MaterialExported	0.00	430.00
tblGrading	MaterialExported	0.00	730.00
tblGrading	MaterialImported	0.00	50.00
tblGrading	MaterialImported	0.00	50.00
tblGrading	MaterialImported	0.00	50.00
tblGrading	MaterialImported	0.00	431.00
tblGrading	MaterialImported	0.00	1,088.00
tblGrading	MaterialImported	0.00	323.00
tblGrading	MaterialImported	0.00	576.00
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

[illegible]

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	31.82	0.00
tblTripsAndVMT	HaulingTripLength	20.00	551.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.25
tblTripsAndVMT	HaulingTripLength	20.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	551.00
tblTripsAndVMT	HaulingTripNumber	25.00	18.00
tblTripsAndVMT	HaulingTripNumber	126.00	70.00
tblTripsAndVMT	HaulingTripNumber	317.00	174.00
tblTripsAndVMT	HaulingTripNumber	94.00	52.00
tblTripsAndVMT	HaulingTripNumber	163.00	88.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
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tblTripsAndVMT	VendorTripNumber	0.00	3.00
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tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	WorkerTripLength	15.00	18.00
tblTripsAndVMT	WorkerTripLength	15.00	18.00
tblTripsAndVMT	WorkerTripLength	15.00	18.00
tblTripsAndVMT	WorkerTripLength	15.00	18.00

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

tblTripsAndVMT	WorkerTripLength	15.00	18.00
tblTripsAndVMT	WorkerTripLength	15.00	18.00
tblTripsAndVMT	WorkerTripLength	15.00	18.00
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tblTripsAndVMT	WorkerTripNumber	10.00	24.00
tblTripsAndVMT	WorkerTripNumber	10.00	24.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	440,848,099.37	0.00

2.0 Emissions Summary

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

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					
2020	5.8735	93.1067	36.9627	0.2877	111.1073	2.2359	113.0407	16.6689	2.0684	18.7373			29,808.7107	1.4394	0.0000	29,844.6958
Maximum	5.8735	93.1067	36.9627	0.2877	111.1073	2.2359	113.0407	16.6689	2.0684	18.7373			29,808.7107	1.4394	0.0000	29,844.6958

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					
2020	5.8735	93.1067	36.9627	0.2877	47.4531	2.2359	49.3865	9.3842	2.0684	11.4526			29,808.7107	1.4394	0.0000	29,844.6958
Maximum	5.8735	93.1067	36.9627	0.2877	47.4531	2.2359	49.3865	9.3842	2.0684	11.4526			29,808.7107	1.4394	0.0000	29,844.6958

	ROG	NOx	CO	SO2	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	57.29	0.00	56.31	43.70	0.00	38.88	0.00	0.00	0.00	0.00	0.00	0.00

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8339	3.5000e-004	0.0379	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004			0.0810	2.2000e-004		0.0864
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
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
Total	0.8339	3.5000e-004	0.0379	0.0000	0.0000	1.4000e-004	1.4000e-004	0.0000	1.4000e-004	1.4000e-004			0.0810	2.2000e-004	0.0000	0.0864

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	0.8339	3.5000e-004	0.0379	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004			0.0810	2.2000e-004		0.0864
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
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
Total	0.8339	3.5000e-004	0.0379	0.0000	0.0000	1.4000e-004	1.4000e-004	0.0000	1.4000e-004	1.4000e-004			0.0810	2.2000e-004	0.0000	0.0864

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	1.1 Improve access road	Grading	6/1/2020	6/8/2020	6	7	
2	1.2 Grade repository	Grading	6/8/2020	6/23/2020	6	14	
3	1.3 Excavate waste from Area 6	Grading	6/22/2020	6/29/2020	6	7	
4	1.4 Excavate waste from Area 1	Grading	6/29/2020	7/6/2020	6	7	
5	1.5 Site prep for Area 2	Site Preparation	7/6/2020	7/13/2020	6	7	
6	1.6 Excavate waste from Area 3	Grading	7/13/2020	7/28/2020	6	14	
7	1.7 Excavate waste from Area 4	Grading	7/27/2020	8/3/2020	6	7	
8	1.8 Excavate waste from Area 5	Grading	8/3/2020	8/10/2020	6	7	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1.2 Grade repository	Excavators	1	8.00	158	0.38
1.2 Grade repository	Graders	0	8.00	187	0.41

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1.1 Improve access road	Other General Industrial Equipment	1	8.00	88	0.34
1.2 Grade repository	Rubber Tired Dozers	1	8.00	247	0.40
1.2 Grade repository	Scrapers	0	8.00	367	0.48
1.2 Grade repository	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.3 Excavate waste from Area 6	Excavators	1	8.00	158	0.38
1.3 Excavate waste from Area 6	Graders	0	8.00	187	0.41
1.2 Grade repository	Other General Industrial Equipment	1	8.00	88	0.34
1.3 Excavate waste from Area 6	Rubber Tired Dozers	1	8.00	247	0.40
1.3 Excavate waste from Area 6	Scrapers	0	8.00	367	0.48
1.3 Excavate waste from Area 6	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.1 Improve access road	Excavators	1	8.00	158	0.38
1.1 Improve access road	Graders	0	8.00	187	0.41
1.3 Excavate waste from Area 6	Other General Industrial Equipment	1	8.00	88	0.34
1.1 Improve access road	Rubber Tired Dozers	1	8.00	247	0.40
1.1 Improve access road	Scrapers	0	8.00	367	0.48
1.1 Improve access road	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.4 Excavate waste from Area 1	Excavators	1	8.00	158	0.38
1.4 Excavate waste from Area 1	Graders	0	8.00	187	0.41
1.4 Excavate waste from Area 1	Other General Industrial Equipment	1	8.00	88	0.34
1.4 Excavate waste from Area 1	Rubber Tired Dozers	1	8.00	247	0.40
1.4 Excavate waste from Area 1	Scrapers	0	8.00	367	0.48
1.4 Excavate waste from Area 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.5 Site prep for Area 2	Rubber Tired Dozers	0	8.00	247	0.40
1.5 Site prep for Area 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.6 Excavate waste from Area 3	Excavators	1	8.00	158	0.38
1.6 Excavate waste from Area 3	Graders	0	8.00	187	0.41
1.6 Excavate waste from Area 3	Other General Industrial Equipment	1	8.00	88	0.34

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1.6 Excavate waste from Area 3	Rubber Tired Dozers	1	8.00	247	0.40
1.6 Excavate waste from Area 3	Scrapers	0	8.00	367	0.48
1.6 Excavate waste from Area 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.7 Excavate waste from Area 4	Excavators	1	8.00	158	0.38
1.7 Excavate waste from Area 4	Graders	0	8.00	187	0.41
1.7 Excavate waste from Area 4	Other General Industrial Equipment	1	8.00	88	0.34
1.7 Excavate waste from Area 4	Rubber Tired Dozers	1	8.00	247	0.40
1.7 Excavate waste from Area 4	Scrapers	0	8.00	367	0.48
1.7 Excavate waste from Area 4	Tractors/Loaders/Backhoes	1	8.00	97	0.37
1.8 Excavate waste from Area 5	Excavators	1	8.00	158	0.38
1.8 Excavate waste from Area 5	Graders	0	8.00	187	0.41
1.8 Excavate waste from Area 5	Other General Industrial Equipment	1	8.00	88	0.34
1.8 Excavate waste from Area 5	Rubber Tired Dozers	1	8.00	247	0.40
1.8 Excavate waste from Area 5	Scrapers	0	8.00	367	0.48
1.8 Excavate waste from Area 5	Tractors/Loaders/Backhoes	1	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
1.2 Grade repository	4	24.00	3.00	6.00	18.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
1.3 Excavate waste from Area 6	4	24.00	3.00	18.00	18.00	9.00	551.00	LD_Mix	HDT_Mix	HHDT
1.1 Improve access road	4	24.00	3.00	6.00	18.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
1.4 Excavate waste from Area 1	4	24.00	3.00	70.00	18.00	9.00	1.25	LD_Mix	HDT_Mix	HHDT
1.5 Site prep for Area 2	1	8.00	3.00	0.00	18.00	9.00	0.00	LD_Mix	HDT_Mix	HHDT
1.6 Excavate waste from Area 3	4	24.00	3.00	174.00	18.00	9.00	2.00	LD_Mix	HDT_Mix	HHDT
1.7 Excavate waste from Area 4	4	24.00	3.00	52.00	18.00	9.00	2.00	LD_Mix	HDT_Mix	HHDT
1.8 Excavate waste from Area 5	4	24.00	3.00	88.00	18.00	9.00	551.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 1.1 Improve access road - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5149	0.0000	6.5149	3.3636	0.0000	3.3636			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	6.5149	0.9611	7.4760	3.3636	0.8842	4.2478			1,876.2476	0.6068		1,891.4180

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3.2 1.1 Improve access road - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7500e-003	0.2252	0.0359	7.1000e-004	5.0585	8.2000e-004	5.0593	0.5071	7.8000e-004	0.5078			74.1844	2.8800e-003		74.2563
Vendor	0.0121	0.3738	0.0708	1.0300e-003	19.8838	1.8600e-003	19.8856	1.9876	1.7800e-003	1.9893			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1609	0.6843	1.2185	5.2100e-003	25.2706	4.8000e-003	25.2754	2.5817	4.5200e-003	2.5862			528.1957	0.0166		528.6107

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4920	0.0000	2.4920	1.2866	0.0000	1.2866			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	2.4920	0.9611	3.4531	1.2866	0.8842	2.1708			1,876.2476	0.6068		1,891.4180

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

3.2 1.1 Improve access road - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7500e-003	0.2252	0.0359	7.1000e-004	2.1752	8.2000e-004	2.1760	0.3114	7.8000e-004	0.3122			74.1844	2.8800e-003		74.2563
Vendor	0.0121	0.3738	0.0708	1.0300e-003	8.5309	1.8600e-003	8.5327	1.2172	1.7800e-003	1.2190			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1609	0.6843	1.2185	5.2100e-003	11.0345	4.8000e-003	11.0393	1.6157	4.5200e-003	1.6202			528.1957	0.0166		528.6107

3.3 1.2 Grade repository - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0276	0.0000	6.0276	3.3109	0.0000	3.3109			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	6.0276	0.9611	6.9887	3.3109	0.8842	4.1951			1,876.2476	0.6068		1,891.4180

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3.3 1.2 Grade repository - 2020**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	3.3800e-003	0.1126	0.0180	3.5000e-004	2.5292	4.1000e-004	2.5296	0.2535	3.9000e-004	0.2539			37.0922	1.4400e-003		37.1282
Vendor	0.0121	0.3738	0.0708	1.0300e-003	19.8838	1.8600e-003	19.8856	1.9876	1.7800e-003	1.9893			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1575	0.5717	1.2005	4.8500e-003	22.7414	4.3900e-003	22.7458	2.3282	4.1300e-003	2.3323			491.1035	0.0152		491.4825

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3056	0.0000	2.3056	1.2664	0.0000	1.2664			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	2.3056	0.9611	3.2667	1.2664	0.8842	2.1506			1,876.2476	0.6068		1,891.4180

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

3.3 1.2 Grade repository - 2020**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	3.3800e-003	0.1126	0.0180	3.5000e-004	1.0876	4.1000e-004	1.0880	0.1557	3.9000e-004	0.1561			37.0922	1.4400e-003		37.1282
Vendor	0.0121	0.3738	0.0708	1.0300e-003	8.5309	1.8600e-003	8.5327	1.2172	1.7800e-003	1.2190			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1575	0.5717	1.2005	4.8500e-003	9.9469	4.3900e-003	9.9513	1.4600	4.1300e-003	1.4641			491.1035	0.0152		491.4825

3.4 1.3 Excavate waste from Area 6 - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1785	0.0000	6.1785	3.3277	0.0000	3.3277			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	6.1785	0.9611	7.1396	3.3277	0.8842	4.2119			1,876.2476	0.6068		1,891.4180

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

3.4 1.3 Excavate waste from Area 6 - 2020**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	0.4104	11.3097	2.2830	0.0488	5.4048	0.0623	5.4671	0.7543	0.0596	0.8139			5,110.3463	0.0360		5,111.2467
Vendor	0.0121	0.3738	0.0708	1.0300e-003	19.8838	1.8600e-003	19.8856	1.9876	1.7800e-003	1.9893			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.5645	11.7688	3.4655	0.0533	25.6169	0.0663	25.6832	2.8290	0.0633	2.8923			5,564.3576	0.0498		5,565.6011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3633	0.0000	2.3633	1.2729	0.0000	1.2729			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	2.3633	0.9611	3.3244	1.2729	0.8842	2.1571			1,876.2476	0.6068		1,891.4180

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3.4 1.3 Excavate waste from Area 6 - 2020**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	0.4104	11.3097	2.2830	0.0488	3.0217	0.0623	3.0840	0.5926	0.0596	0.6522			5,110.3463	0.0360		5,111.2467
Vendor	0.0121	0.3738	0.0708	1.0300e-003	8.5309	1.8600e-003	8.5327	1.2172	1.7800e-003	1.2190			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.5645	11.7688	3.4655	0.0533	11.8810	0.0663	11.9473	1.8969	0.0633	1.9602			5,564.3576	0.0498		5,565.6011

3.5 1.4 Excavate waste from Area 1 - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1017	0.0000	6.1017	3.3219	0.0000	3.3219			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	6.1017	0.9611	7.0627	3.3219	0.8842	4.2061			1,876.2476	0.6068		1,891.4180

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3.5 1.4 Excavate waste from Area 1 - 2020**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	0.0252	1.1676	0.1207	1.8500e-003	18.3988	1.3000e-003	18.4001	1.8367	1.2500e-003	1.8380			194.2953	0.0298		195.0404
Vendor	0.0121	0.3738	0.0708	1.0300e-003	19.8838	1.8600e-003	19.8856	1.9876	1.7800e-003	1.9893			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1793	1.6267	1.3032	6.3500e-003	38.6110	5.2800e-003	38.6163	3.9114	4.9900e-003	3.9164			648.3066	0.0435		649.3948

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3339	0.0000	2.3339	1.2706	0.0000	1.2706			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	2.3339	0.9611	3.2950	1.2706	0.8842	2.1548			1,876.2476	0.6068		1,891.4180

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3.5 1.4 Excavate waste from Area 1 - 2020**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	0.0252	1.1676	0.1207	1.8500e-003	7.8869	1.3000e-003	7.8882	1.1234	1.2500e-003	1.1247			194.2953	0.0298		195.0404
Vendor	0.0121	0.3738	0.0708	1.0300e-003	8.5309	1.8600e-003	8.5327	1.2172	1.7800e-003	1.2190			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1793	1.6267	1.3032	6.3500e-003	16.7462	5.2800e-003	16.7515	2.4277	4.9900e-003	2.4327			648.3066	0.0435		649.3948

3.6 1.5 Site prep for Area 2 - 2020**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	0.2095	2.1052	2.2797	3.1100e-003		0.1331	0.1331		0.1225	0.1225			300.7685	0.0973		303.2004
Total	0.2095	2.1052	2.2797	3.1100e-003	0.0000	0.1331	0.1331	0.0000	0.1225	0.1225			300.7685	0.0973		303.2004

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

3.6 1.5 Site prep for Area 2 - 2020**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
Vendor	0.0121	0.3738	0.0708	1.0300e-003	19.8838	1.8600e-003	19.8856	1.9876	1.7800e-003	1.9893			107.8029	5.2300e-003		107.9335
Worker	0.0473	0.0284	0.3706	1.1600e-003	0.1095	7.1000e-004	0.1102	0.0290	6.5000e-004	0.0297			115.4028	2.8300e-003		115.4736
Total	0.0595	0.4022	0.4414	2.1900e-003	19.9932	2.5700e-003	19.9958	2.0166	2.4300e-003	2.0190			223.2057	8.0600e-003		223.4071

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	0.2095	2.1052	2.2797	3.1100e-003		0.1331	0.1331		0.1225	0.1225			300.7685	0.0973		303.2004
Total	0.2095	2.1052	2.2797	3.1100e-003	0.0000	0.1331	0.1331	0.0000	0.1225	0.1225			300.7685	0.0973		303.2004

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3.6 1.5 Site prep for Area 2 - 2020**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
Vendor	0.0121	0.3738	0.0708	1.0300e-003	8.5309	1.8600e-003	8.5327	1.2172	1.7800e-003	1.2190			107.8029	5.2300e-003		107.9335
Worker	0.0473	0.0284	0.3706	1.1600e-003	0.1095	7.1000e-004	0.1102	0.0290	6.5000e-004	0.0297			115.4028	2.8300e-003		115.4736
Total	0.0595	0.4022	0.4414	2.1900e-003	8.6403	2.5700e-003	8.6429	1.2462	2.4300e-003	1.2486			223.2057	8.0600e-003		223.4071

3.7 1.6 Excavate waste from Area 3 - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1314	0.0000	6.1314	3.3259	0.0000	3.3259			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	6.1314	0.9611	7.0925	3.3259	0.8842	4.2101			1,876.2476	0.6068		1,891.4180

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

3.7 1.6 Excavate waste from Area 3 - 2020**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	0.0340	1.5238	0.1648	2.6200e-003	36.5872	2.0300e-003	36.5893	3.6524	1.9400e-003	3.6543			274.8490	0.0372		275.7798
Vendor	0.0121	0.3738	0.0708	1.0300e-003	19.8838	1.8600e-003	19.8856	1.9876	1.7800e-003	1.9893			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1881	1.9828	1.3473	7.1200e-003	56.7994	6.0100e-003	56.8054	5.7270	5.6800e-003	5.7327			728.8603	0.0510		730.1341

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3453	0.0000	2.3453	1.2722	0.0000	1.2722			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	2.3453	0.9611	3.3064	1.2722	0.8842	2.1564			1,876.2476	0.6068		1,891.4180

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

3.7 1.6 Excavate waste from Area 3 - 2020**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	0.0340	1.5238	0.1648	2.6200e-003	15.6835	2.0300e-003	15.6855	2.2339	1.9400e-003	2.2359			274.8490	0.0372		275.7798
Vendor	0.0121	0.3738	0.0708	1.0300e-003	8.5309	1.8600e-003	8.5327	1.2172	1.7800e-003	1.2190			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1881	1.9828	1.3473	7.1200e-003	24.5428	6.0100e-003	24.5488	3.5382	5.6800e-003	3.5439			728.8603	0.0510		730.1341

3.8 1.7 Excavate waste from Area 4 - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0961	0.0000	6.0961	3.3205	0.0000	3.3205			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	6.0961	0.9611	7.0571	3.3205	0.8842	4.2047			1,876.2476	0.6068		1,891.4180

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

3.8 1.7 Excavate waste from Area 4 - 2020**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	0.0203	0.9108	0.0985	1.5700e-003	21.8682	1.2100e-003	21.8695	2.1830	1.1600e-003	2.1842			164.2776	0.0223		164.8339
Vendor	0.0121	0.3738	0.0708	1.0300e-003	19.8838	1.8600e-003	19.8856	1.9876	1.7800e-003	1.9893			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1744	1.3698	1.2810	6.0700e-003	42.0804	5.1900e-003	42.0856	4.2577	4.9000e-003	4.2626			618.2889	0.0360		619.1882

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3317	0.0000	2.3317	1.2701	0.0000	1.2701			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	2.3317	0.9611	3.2928	1.2701	0.8842	2.1543			1,876.2476	0.6068		1,891.4180

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

3.8 1.7 Excavate waste from Area 4 - 2020**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	0.0203	0.9108	0.0985	1.5700e-003	9.3740	1.2100e-003	9.3753	1.3352	1.1600e-003	1.3364			164.2776	0.0223		164.8339
Vendor	0.0121	0.3738	0.0708	1.0300e-003	8.5309	1.8600e-003	8.5327	1.2172	1.7800e-003	1.2190			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	0.1744	1.3698	1.2810	6.0700e-003	18.2333	5.1900e-003	18.2385	2.6395	4.9000e-003	2.6444			618.2889	0.0360		619.1882

3.9 1.8 Excavate waste from Area 5 - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1515	0.0000	6.1515	3.3282	0.0000	3.3282			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	6.1515	0.9611	7.1125	3.3282	0.8842	4.2124			1,876.2476	0.6068		1,891.4180

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

3.9 1.8 Excavate waste from Area 5 - 2020**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	2.0063	55.2920	11.1613	0.2384	26.4233	0.3046	26.7278	3.6879	0.2914	3.9793			24,983.9153	0.1761		24,988.3172
Vendor	0.0121	0.3738	0.0708	1.0300e-003	19.8838	1.8600e-003	19.8856	1.9876	1.7800e-003	1.9893			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	2.1605	55.7511	12.3439	0.2429	46.6354	0.3085	46.9440	5.7625	0.2951	6.0576			25,437.9266	0.1898		25,442.6715

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3529	0.0000	2.3529	1.2730	0.0000	1.2730			0.0000			0.0000
Off-Road	1.7693	17.9929	11.6689	0.0194		0.9611	0.9611		0.8842	0.8842			1,876.2476	0.6068		1,891.4180
Total	1.7693	17.9929	11.6689	0.0194	2.3529	0.9611	3.3140	1.2730	0.8842	2.1572			1,876.2476	0.6068		1,891.4180

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3.9 1.8 Excavate waste from Area 5 - 2020**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	2.0063	55.2920	11.1613	0.2384	14.7729	0.3046	15.0775	2.8973	0.2914	3.1887			24,983.9153	0.1761		24,988.3172
Vendor	0.0121	0.3738	0.0708	1.0300e-003	8.5309	1.8600e-003	8.5327	1.2172	1.7800e-003	1.2190			107.8029	5.2300e-003		107.9335
Worker	0.1420	0.0853	1.1118	3.4700e-003	0.3284	2.1200e-003	0.3306	0.0871	1.9600e-003	0.0891			346.2084	8.5000e-003		346.4208
Total	2.1605	55.7511	12.3439	0.2429	23.6322	0.3085	23.9407	4.2016	0.2951	4.4967			25,437.9266	0.1898		25,442.6715

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	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
City Park	15.00	8.00	9.00	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.520277	0.038864	0.193543	0.118146	0.022917	0.005635	0.034518	0.053912	0.001336	0.002070	0.007104	0.000691	0.000987

5.0 Energy Detail

 Historical Energy Use: N

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

5.1 Mitigation Measures Energy

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

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					
City Park	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
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

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

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

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	0.8339	3.5000e-004	0.0379	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004			0.0810	2.2000e-004		0.0864
Unmitigated	0.8339	3.5000e-004	0.0379	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004			0.0810	2.2000e-004		0.0864

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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	0.8304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5400e-003	3.5000e-004	0.0379	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004			0.0810	2.2000e-004		0.0864
Total	0.8339	3.5000e-004	0.0379	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004			0.0810	2.2000e-004		0.0864

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	0.8304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5400e-003	3.5000e-004	0.0379	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004			0.0810	2.2000e-004		0.0864
Total	0.8339	3.5000e-004	0.0379	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004			0.0810	2.2000e-004		0.0864

7.0 Water Detail

Reed Mine and Upper Davis Creek Remediation Project - Yolo/Solano AQMD Air District, Summer

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

AERSCREEN 16216 / AERMOD 18081

11/16/18

12:17:07

TITLE: Reed Mine

***** AREA PARAMETERS *****

SOURCE EMISSION RATE: 0.1940 g/s 1.540 lb/hr

AREA EMISSION RATE: 0.776E-04 g/(s-m2) 0.616E-03 lb/(hr-m2)

AREA HEIGHT: 3.08 meters 10.12 feet

AREA SOURCE LONG SIDE: 50.00 meters 164.04 feet

AREA SOURCE SHORT SIDE: 50.00 meters 164.04 feet

INITIAL VERTICAL DIMENSION: 1.00 meters 3.28 feet

RURAL OR URBAN: RURAL

INITIAL PROBE DISTANCE = 5000. meters 16404. feet

***** BUILDING DOWNWASH PARAMETERS *****

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

***** FLOW SECTOR ANALYSIS *****

25 meter receptor spacing: 1. meters - 5000. meters

MAXIMUM IMPACT RECEPTOR

Zo SURFACE 1-HR CONC RADIAL DIST TEMPORAL
SECTOR ROUGHNESS (ug/m3) (deg) (m) PERIOD

1* 0.100 1849. 45 100.0 SUM

* = worst case diagonal

***** MAKEMET METEOROLOGY PARAMETERS *****

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Grassland

DOMINANT CLIMATE TYPE: Dry Conditions

DOMINANT SEASON: Summer

ALBEDO: 0.18

BOWEN RATIO: 2.00

ROUGHNESS LENGTH: 0.100 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR

10 01 25 25 01

H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN ALBEDO REF WS

-0.09 0.022 -9.000 0.020 -999. 7. 8.6 0.100 2.00 0.18 0.50

HT REF TA HT

10.0 250.0 2.0

***** AERSCREEN AUTOMATED DISTANCES *****

OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

MAXIMUM		MAXIMUM	
DIST	1-HR CONC	DIST	1-HR CONC
(m)	(ug/m3)	(m)	(ug/m3)
-----		-----	
1.00	729.2	2525.00	274.0
25.00	1137.	2550.00	271.4
50.01	1505.	2575.00	268.8
75.00	1840.	2600.00	266.3
100.00	1849.	2625.00	263.8
125.00	1732.	2650.00	261.4
150.01	1631.	2675.00	259.0
174.99	1597.	2700.00	256.6
200.00	1561.	2725.00	254.3
225.00	1511.	2750.00	252.0
250.00	1456.	2775.00	249.8
275.00	1398.	2800.00	247.5
300.00	1340.	2824.99	245.4
325.00	1283.	2850.00	243.2
350.00	1229.	2875.00	241.1
375.01	1176.	2900.00	239.0
400.00	1128.	2925.00	237.0
425.00	1082.	2950.00	235.0
450.00	1039.	2975.00	233.0
475.01	1002.	3000.00	231.0
500.00	968.0	3025.00	229.1
525.00	935.6	3050.00	227.2
550.00	905.3	3075.00	225.4
575.00	876.4	3100.00	223.5
600.00	849.1	3125.00	221.7
625.00	823.4	3150.00	219.9
650.00	798.9	3175.00	218.2
675.00	775.4	3200.00	216.4
700.00	752.9	3225.00	214.7
725.00	731.5	3250.00	213.1
750.00	711.1	3275.00	211.4
775.00	691.7	3300.00	209.8
800.00	674.7	3325.00	208.1
825.00	662.5	3350.00	206.6
850.00	650.5	3375.00	205.0
875.00	638.9	3400.00	203.4
900.00	627.4	3425.00	201.9
925.00	616.4	3450.00	200.4
950.00	605.7	3475.00	198.9
975.00	595.3	3500.00	197.5
1000.00	585.1	3525.00	196.0
1024.99	575.1	3550.00	194.6
1050.00	565.4	3575.00	193.2

1075.00	556.0	3600.00	191.8
1100.00	546.7	3625.00	190.4
1125.00	537.7	3650.00	189.1
1150.00	529.1	3675.00	187.7
1175.00	520.7	3700.00	186.4
1200.00	512.5	3725.00	185.1
1225.00	504.6	3750.00	183.8
1250.00	497.1	3775.00	182.6
1275.00	489.7	3800.00	181.3
1300.00	482.5	3825.00	180.1
1325.00	475.6	3849.99	178.8
1350.00	468.8	3875.00	177.6
1375.00	472.8	3900.00	176.4
1400.00	465.9	3925.00	175.3
1425.00	459.2	3950.00	174.1
1450.00	452.6	3975.00	172.9
1475.00	446.3	4000.00	171.8
1500.00	440.1	4025.00	170.7
1525.00	434.0	4050.00	169.6
1550.00	428.1	4075.00	168.5
1575.00	422.3	4100.00	167.4
1600.00	416.6	4125.00	166.3
1625.00	411.1	4150.00	165.3
1650.00	405.7	4175.00	164.2
1675.00	400.4	4200.00	163.2
1700.00	395.3	4225.00	162.2
1725.00	390.3	4250.00	161.2
1750.00	385.4	4275.00	160.2
1775.00	380.5	4300.00	159.2
1800.00	375.8	4325.00	158.2
1824.99	371.2	4350.00	157.2
1850.00	366.7	4375.00	156.3
1875.00	362.3	4400.00	155.3
1900.00	358.0	4425.00	154.4
1924.99	353.8	4450.00	153.5
1950.00	349.7	4475.00	152.6
1975.00	345.6	4500.00	151.7
2000.00	341.6	4525.00	150.8
2025.00	337.8	4550.00	149.9
2050.00	334.0	4575.00	149.0
2075.00	330.2	4600.00	148.1
2099.99	326.6	4625.00	147.3
2125.00	323.0	4650.00	146.4
2150.00	319.5	4675.00	145.6
2175.00	316.0	4700.00	144.8
2200.00	312.7	4725.00	143.9
2225.00	309.3	4750.00	143.1

2250.00	306.1	4775.00	142.3
2275.00	302.9	4800.00	141.5
2300.00	299.8	4825.00	140.7
2325.00	296.7	4850.00	139.9
2350.00	293.7	4875.00	139.2
2375.00	290.7	4899.99	138.4
2399.99	287.8	4925.00	137.7
2425.00	284.9	4950.00	136.9
2449.99	282.1	4975.00	136.2
2475.00	279.4	5000.00	135.4
2500.00	276.7		

***** AERSCREEN MAXIMUM IMPACT SUMMARY *****

3-hour, 8-hour, and 24-hour scaled
 concentrations are equal to the 1-hour concentration as referenced in
 SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
 IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
 Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
 under Screening Guidance

	MAXIMUM 1-HOUR CALCULATION PROCEDURE	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
FLAT TERRAIN	1870.	1870.	1870.	1870.	N/A

DISTANCE FROM SOURCE 88.01 meters

IMPACT AT THE AMBIENT BOUNDARY	729.2	729.2	729.2	729.2	N/A
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DISTANCE FROM SOURCE 1.00 meters