

Appendix A

CalEEMod Report

Rainbow XI Water Bank - Tulare County, Annual

**Rainbow XI Water Bank
Tulare County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	Acre	50.00	2,178,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	51
Climate Zone	7			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use -

Construction Phase - Construction will take approximately 6 months to complete

Off-road Equipment - Site prep will utilize 2 tractors/loaders/backhoes, 1 skid stter loader, and 3 other construction equipment

Off-road Equipment - Grading will utilize 2 graders, 1 scraper, 1 off-highway tractor, and 3 other construction equipment

Off-road Equipment - Trenching will utilize 1 tractors/loaders/backhoes, 1 trencher, and 3 other construction equipment

Off-road Equipment - Construction will utilize 2 welders, 1 tractors/loaders/backhoes, and 7 other construction equipment

Grading - Project site is 50 acres

Trips and VMT - Approximately 15 construction workers on-site and 2 vendor trips/day for all phases

Vehicle Trips - Trips to and from the project site would be limited to those necessary for maintenance activities (approximately 1 trip/day)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	44.00
tblConstructionPhase	NumDays	740.00	64.00
tblConstructionPhase	NumDays	30.00	43.00
tblConstructionPhase	PhaseEndDate	3/6/2024	1/31/2021
tblConstructionPhase	PhaseEndDate	5/5/2021	1/31/2021
tblConstructionPhase	PhaseEndDate	5/22/2024	3/31/2021
tblConstructionPhase	PhaseEndDate	1/20/2021	11/30/2020
tblConstructionPhase	PhaseStartDate	5/6/2021	12/15/2020
tblConstructionPhase	PhaseStartDate	1/21/2021	12/1/2020
tblConstructionPhase	PhaseStartDate	3/7/2024	1/1/2021
tblConstructionPhase	PhaseStartDate	12/10/2020	10/1/2020
tblGrading	AcresOfGrading	88.00	50.00
tblOffRoadEquipment	HorsePower	367.00	158.00
tblOffRoadEquipment	HorsePower	97.00	231.00
tblOffRoadEquipment	HorsePower	78.00	89.00

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tblOffRoadEquipment	HorsePower	172.00	84.00
tblOffRoadEquipment	HorsePower	187.00	247.00
tblOffRoadEquipment	HorsePower	124.00	187.00
tblOffRoadEquipment	HorsePower	65.00	97.00
tblOffRoadEquipment	HorsePower	97.00	247.00
tblOffRoadEquipment	HorsePower	172.00	367.00
tblOffRoadEquipment	HorsePower	172.00	231.00
tblOffRoadEquipment	HorsePower	46.00	89.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.29
tblOffRoadEquipment	LoadFactor	0.50	0.20
tblOffRoadEquipment	LoadFactor	0.42	0.74
tblOffRoadEquipment	LoadFactor	0.41	0.40
tblOffRoadEquipment	LoadFactor	0.44	0.41
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	LoadFactor	0.42	0.48
tblOffRoadEquipment	LoadFactor	0.42	0.29
tblOffRoadEquipment	LoadFactor	0.45	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.74
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	OffRoadEquipmentType	Cranes	Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType	Forklifts	Trenchers
tblOffRoadEquipment	OffRoadEquipmentType	Generator Sets	Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Off-Highway Tractors
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Scrapers	Other Construction Equipment

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tblOffRoadEquipment	OffRoadEquipmentType	Cranes	Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	357.00	2.00
tblTripsAndVMT	WorkerTripNumber	23.00	15.00
tblTripsAndVMT	WorkerTripNumber	30.00	15.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblTripsAndVMT	WorkerTripNumber	915.00	15.00
tblVehicleTrips	WD_TR	0.00	1.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2020	12-31-2020	2.0653	2.0653
2	1-1-2021	3-31-2021	1.5979	1.5979
		Highest	2.0653	2.0653

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	0.1863	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1863	0.0000	4.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

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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	0.1863	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1863	0.0000	4.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2020	11/30/2020	5	43	
2	Grading	Grading	12/1/2020	1/31/2021	5	44	
3	Trenching	Trenching	12/15/2020	1/31/2021	5	34	
4	Building Construction	Building Construction	1/1/2021	3/31/2021	5	64	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 50

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

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Other Construction Equipment	7	7.00	231	0.29
Building Construction	Welders	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	84	0.74
Grading	Scrapers	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	1	7.00	231	0.29
Trenching	Trenchers	1	8.00	89	0.20
Trenching	Other Construction Equipment	3	8.00	84	0.74
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Graders	2	8.00	247	0.40
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Off-Highway Tractors	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Skid Steer Loaders	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	247	0.40
Grading	Other Construction Equipment	3	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Other Construction Equipment	3		172	0.42

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	9	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 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					0.3884	0.0000	0.3884	0.2135	0.0000	0.2135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0891	0.9702	0.4007	9.8000e-004		0.0440	0.0440		0.0405	0.0405	0.0000	86.2188	86.2188	0.0279	0.0000	86.9160
Total	0.0891	0.9702	0.4007	9.8000e-004	0.3884	0.0440	0.4324	0.2135	0.0405	0.2540	0.0000	86.2188	86.2188	0.0279	0.0000	86.9160

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3.2 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	5.2500e-003	1.0400e-003	1.0000e-005	2.8000e-004	3.0000e-005	3.1000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	1.1533	1.1533	5.0000e-005	0.0000	1.1546
Worker	1.5200e-003	1.0100e-003	0.0103	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.2068	2.2068	7.0000e-005	0.0000	2.2085
Total	1.6900e-003	6.2600e-003	0.0114	3.0000e-005	2.8500e-003	5.0000e-005	2.9000e-003	7.6000e-004	5.0000e-005	8.1000e-004	0.0000	3.3601	3.3601	1.2000e-004	0.0000	3.3632

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					0.3884	0.0000	0.3884	0.2135	0.0000	0.2135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0891	0.9702	0.4007	9.8000e-004		0.0440	0.0440		0.0405	0.0405	0.0000	86.2187	86.2187	0.0279	0.0000	86.9158
Total	0.0891	0.9702	0.4007	9.8000e-004	0.3884	0.0440	0.4324	0.2135	0.0405	0.2540	0.0000	86.2187	86.2187	0.0279	0.0000	86.9158

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3.2 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	5.2500e-003	1.0400e-003	1.0000e-005	2.8000e-004	3.0000e-005	3.1000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	1.1533	1.1533	5.0000e-005	0.0000	1.1546
Worker	1.5200e-003	1.0100e-003	0.0103	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.2068	2.2068	7.0000e-005	0.0000	2.2085
Total	1.6900e-003	6.2600e-003	0.0114	3.0000e-005	2.8500e-003	5.0000e-005	2.9000e-003	7.6000e-004	5.0000e-005	8.1000e-004	0.0000	3.3601	3.3601	1.2000e-004	0.0000	3.3632

3.3 Grading - 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					0.0958	0.0000	0.0958	0.0409	0.0000	0.0409	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0703	0.8037	0.4650	1.1500e-003		0.0329	0.0329		0.0303	0.0303	0.0000	100.7662	100.7662	0.0326	0.0000	101.5809
Total	0.0703	0.8037	0.4650	1.1500e-003	0.0958	0.0329	0.1287	0.0409	0.0303	0.0712	0.0000	100.7662	100.7662	0.0326	0.0000	101.5809

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3.3 Grading - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.8100e-003	5.6000e-004	1.0000e-005	1.5000e-004	2.0000e-005	1.7000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.6169	0.6169	3.0000e-005	0.0000	0.6176
Worker	8.1000e-004	5.4000e-004	5.5100e-003	1.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.1804	1.1804	4.0000e-005	0.0000	1.1813
Total	9.0000e-004	3.3500e-003	6.0700e-003	2.0000e-005	1.5200e-003	3.0000e-005	1.5500e-003	4.1000e-004	3.0000e-005	4.3000e-004	0.0000	1.7973	1.7973	7.0000e-005	0.0000	1.7989

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					0.0958	0.0000	0.0958	0.0409	0.0000	0.0409	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0703	0.8037	0.4650	1.1500e-003		0.0329	0.0329		0.0303	0.0303	0.0000	100.7661	100.7661	0.0326	0.0000	101.5808
Total	0.0703	0.8037	0.4650	1.1500e-003	0.0958	0.0329	0.1287	0.0409	0.0303	0.0712	0.0000	100.7661	100.7661	0.0326	0.0000	101.5808

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3.3 Grading - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.8100e-003	5.6000e-004	1.0000e-005	1.5000e-004	2.0000e-005	1.7000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.6169	0.6169	3.0000e-005	0.0000	0.6176
Worker	8.1000e-004	5.4000e-004	5.5100e-003	1.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.1804	1.1804	4.0000e-005	0.0000	1.1813
Total	9.0000e-004	3.3500e-003	6.0700e-003	2.0000e-005	1.5200e-003	3.0000e-005	1.5500e-003	4.1000e-004	3.0000e-005	4.3000e-004	0.0000	1.7973	1.7973	7.0000e-005	0.0000	1.7989

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0897	0.0000	0.0897	0.0376	0.0000	0.0376	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0607	0.6765	0.4178	1.0500e-003		0.0276	0.0276		0.0254	0.0254	0.0000	91.9820	91.9820	0.0298	0.0000	92.7257
Total	0.0607	0.6765	0.4178	1.0500e-003	0.0897	0.0276	0.1173	0.0376	0.0254	0.0630	0.0000	91.9820	91.9820	0.0298	0.0000	92.7257

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.3200e-003	4.4000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5583	0.5583	2.0000e-005	0.0000	0.5589
Worker	6.8000e-004	4.4000e-004	4.5200e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0441	1.0441	3.0000e-005	0.0000	1.0448
Total	7.5000e-004	2.7600e-003	4.9600e-003	2.0000e-005	1.3900e-003	2.0000e-005	1.4100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	1.6023	1.6023	5.0000e-005	0.0000	1.6037

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					0.0897	0.0000	0.0897	0.0376	0.0000	0.0376	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0607	0.6765	0.4178	1.0500e-003		0.0276	0.0276		0.0254	0.0254	0.0000	91.9818	91.9818	0.0298	0.0000	92.7256
Total	0.0607	0.6765	0.4178	1.0500e-003	0.0897	0.0276	0.1173	0.0376	0.0254	0.0630	0.0000	91.9818	91.9818	0.0298	0.0000	92.7256

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3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.3200e-003	4.4000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5583	0.5583	2.0000e-005	0.0000	0.5589
Worker	6.8000e-004	4.4000e-004	4.5200e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0441	1.0441	3.0000e-005	0.0000	1.0448
Total	7.5000e-004	2.7600e-003	4.9600e-003	2.0000e-005	1.3900e-003	2.0000e-005	1.4100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	1.6023	1.6023	5.0000e-005	0.0000	1.6037

3.4 Trenching - 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					
Off-Road	0.0139	0.1317	0.0956	1.5000e-004		9.0100e-003	9.0100e-003		8.2900e-003	8.2900e-003	0.0000	12.9059	12.9059	4.1700e-003	0.0000	13.0102
Total	0.0139	0.1317	0.0956	1.5000e-004		9.0100e-003	9.0100e-003		8.2900e-003	8.2900e-003	0.0000	12.9059	12.9059	4.1700e-003	0.0000	13.0102

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3.4 Trenching - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5900e-003	3.2000e-004	0.0000	9.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3487	0.3487	2.0000e-005	0.0000	0.3491
Worker	4.6000e-004	3.1000e-004	3.1200e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6672	0.6672	2.0000e-005	0.0000	0.6677
Total	5.1000e-004	1.9000e-003	3.4400e-003	1.0000e-005	8.7000e-004	2.0000e-005	8.7000e-004	2.3000e-004	2.0000e-005	2.4000e-004	0.0000	1.0159	1.0159	4.0000e-005	0.0000	1.0168

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0139	0.1317	0.0956	1.5000e-004		9.0100e-003	9.0100e-003		8.2900e-003	8.2900e-003	0.0000	12.9059	12.9059	4.1700e-003	0.0000	13.0102
Total	0.0139	0.1317	0.0956	1.5000e-004		9.0100e-003	9.0100e-003		8.2900e-003	8.2900e-003	0.0000	12.9059	12.9059	4.1700e-003	0.0000	13.0102

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3.4 Trenching - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5900e-003	3.2000e-004	0.0000	9.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3487	0.3487	2.0000e-005	0.0000	0.3491
Worker	4.6000e-004	3.1000e-004	3.1200e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6672	0.6672	2.0000e-005	0.0000	0.6677
Total	5.1000e-004	1.9000e-003	3.4400e-003	1.0000e-005	8.7000e-004	2.0000e-005	8.7000e-004	2.3000e-004	2.0000e-005	2.4000e-004	0.0000	1.0159	1.0159	4.0000e-005	0.0000	1.0168

3.4 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0207	0.1964	0.1533	2.4000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	20.8510	20.8510	6.7400e-003	0.0000	21.0196
Total	0.0207	0.1964	0.1533	2.4000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	20.8510	20.8510	6.7400e-003	0.0000	21.0196

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3.4 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.3200e-003	4.4000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5583	0.5583	2.0000e-005	0.0000	0.5589
Worker	6.8000e-004	4.4000e-004	4.5200e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0441	1.0441	3.0000e-005	0.0000	1.0448
Total	7.5000e-004	2.7600e-003	4.9600e-003	2.0000e-005	1.3900e-003	2.0000e-005	1.4100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	1.6023	1.6023	5.0000e-005	0.0000	1.6037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0207	0.1964	0.1533	2.4000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	20.8510	20.8510	6.7400e-003	0.0000	21.0196
Total	0.0207	0.1964	0.1533	2.4000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	20.8510	20.8510	6.7400e-003	0.0000	21.0196

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3.4 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.3200e-003	4.4000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5583	0.5583	2.0000e-005	0.0000	0.5589
Worker	6.8000e-004	4.4000e-004	4.5200e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0441	1.0441	3.0000e-005	0.0000	1.0448
Total	7.5000e-004	2.7600e-003	4.9600e-003	2.0000e-005	1.3900e-003	2.0000e-005	1.4100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	1.6023	1.6023	5.0000e-005	0.0000	1.6037

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0541	0.5165	0.4827	8.1000e-004		0.0288	0.0288		0.0272	0.0272	0.0000	70.6586	70.6586	0.0153	0.0000	71.0398
Total	0.0541	0.5165	0.4827	8.1000e-004		0.0288	0.0288		0.0272	0.0272	0.0000	70.6586	70.6586	0.0153	0.0000	71.0398

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.0800e-003	1.3500e-003	2.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.7013	1.7013	8.0000e-005	0.0000	1.7032
Worker	2.0800e-003	1.3400e-003	0.0138	4.0000e-005	3.8200e-003	3.0000e-005	3.8500e-003	1.0200e-003	2.0000e-005	1.0400e-003	0.0000	3.1819	3.1819	9.0000e-005	0.0000	3.1841
Total	2.2900e-003	8.4200e-003	0.0151	6.0000e-005	4.2400e-003	5.0000e-005	4.2900e-003	1.1400e-003	4.0000e-005	1.1800e-003	0.0000	4.8832	4.8832	1.7000e-004	0.0000	4.8874

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0541	0.5165	0.4827	8.1000e-004		0.0288	0.0288		0.0272	0.0272	0.0000	70.6585	70.6585	0.0153	0.0000	71.0397
Total	0.0541	0.5165	0.4827	8.1000e-004		0.0288	0.0288		0.0272	0.0272	0.0000	70.6585	70.6585	0.0153	0.0000	71.0397

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.0800e-003	1.3500e-003	2.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.7013	1.7013	8.0000e-005	0.0000	1.7032
Worker	2.0800e-003	1.3400e-003	0.0138	4.0000e-005	3.8200e-003	3.0000e-005	3.8500e-003	1.0200e-003	2.0000e-005	1.0400e-003	0.0000	3.1819	3.1819	9.0000e-005	0.0000	3.1841
Total	2.2900e-003	8.4200e-003	0.0151	6.0000e-005	4.2400e-003	5.0000e-005	4.2900e-003	1.1400e-003	4.0000e-005	1.1800e-003	0.0000	4.8832	4.8832	1.7000e-004	0.0000	4.8874

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	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

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

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.516727	0.033517	0.172440	0.141085	0.022326	0.005434	0.020884	0.078233	0.001822	0.001311	0.004327	0.001132	0.000761

5.0 Energy Detail

Historical Energy Use: N

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5.2 Energy by Land Use - Natural Gas

Mitigated

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

5.3 Energy by Land Use - Electricity

Unmitigated

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

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5.3 Energy by Land Use - Electricity

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1863	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Unmitigated	0.1863	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

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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	tons/yr										MT/yr					
Architectural Coating	0.0454					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Total	0.1863	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0454					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Total	0.1863	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

7.0 Water Detail

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7.1 Mitigation Measures Water

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

7.2 Water by Land Use

Unmitigated

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

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7.2 Water by Land Use

Mitigated

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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8.2 Waste by Land Use

Unmitigated

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

Mitigated

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

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
