

Appendix A

Air Quality and Greenhouse Gas Analysis Report

Cunningham Flood Detention Facility Certification - Bay Area AQMD Air District, Annual

Cunningham Flood Detention Facility Certification
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	5,500.00	User Defined Unit	8.00	5,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2020
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 -

Land Use - Linear project measuring 5,500 feet in length and covering 8.0 acres in area.

Construction Phase - January 1 to December 31, 2018 construction schedule with concurrent levee and floodwall construction.

Off-road Equipment -

Off-road Equipment - Engineer-provided estimates based on past District projects.

Off-road Equipment - Engineer-provided estimates based on past District projects.

Grading - Engineer-provided estimates based on past District projects.

Off-road Equipment -

Off-road Equipment - Engineer-provided estimates based on past District projects.

Off-road Equipment - Engineer-provided estimates based on past District projects.

Trips and VMT - Engineer-provided estimates based on past District projects.

Vehicle Trips - No operational changes.

Fleet Mix - No operational changes.

Consumer Products - No operational changes.

Area Coating -

Water And Wastewater - No operational changes.

Solid Waste - No operational changes.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	230.00	231.00
tblConstructionPhase	NumDays	230.00	150.00
tblConstructionPhase	PhaseEndDate	12/31/2017	12/31/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	2/9/2018
tblConstructionPhase	PhaseEndDate	12/31/2017	11/23/2018

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tblConstructionPhase	PhaseEndDate	12/31/2017	1/12/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	1/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2018	10/29/2018
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.3710e-003	0.00
tblFleetMix	MCY	5.9420e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.1200e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5450e-003	0.00
tblFleetMix	SBUS	8.7700e-004	0.00
tblFleetMix	UBUS	2.4420e-003	0.00
tblGrading	AcresOfGrading	10.00	4.00
tblGrading	AcresOfGrading	0.63	0.00
tblLandUse	BuildingSpaceSquareFeet	0.00	5,500.00
tblLandUse	LandUseSquareFeet	0.00	5,500.00
tblLandUse	LotAcreage	0.00	8.00
tblOffRoadEquipment	HorsePower	402.00	189.00
tblOffRoadEquipment	HorsePower	402.00	189.00
tblOffRoadEquipment	HorsePower	402.00	189.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders

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tbloffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tbloffRoadEquipment	OffRoadEquipmentType		Rollers
tbloffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tbloffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Graders
tbloffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tbloffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tbloffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tbloffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tbloffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tbloffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

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tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	PhaseName		Levee Construction
tbloffRoadEquipment	PhaseName		Levee Construction
tbloffRoadEquipment	PhaseName		Levee Construction
tbloffRoadEquipment	PhaseName		Levee Construction
tbloffRoadEquipment	PhaseName		Grading
tbloffRoadEquipment	PhaseName		Grading
tbloffRoadEquipment	PhaseName		Site Preparation
tbloffRoadEquipment	PhaseName		Site Preparation
tbloffRoadEquipment	PhaseName		Site Preparation
tbloffRoadEquipment	PhaseName		Site Preparation
tbloffRoadEquipment	PhaseName		Site Preparation
tbloffRoadEquipment	PhaseName		Floodwall Construction
tbloffRoadEquipment	PhaseName		Floodwall Construction
tbloffRoadEquipment	PhaseName		Floodwall Construction

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tblProjectCharacteristics	OperationalYear	2018	2020
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,050.00
tblTripsAndVMT	HaulingTripNumber	0.00	26.00
tblTripsAndVMT	VendorTripNumber	1.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	1.00	14.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	EMFAC_Mix
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	EMFAC_Mix
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	EMFAC_Mix
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	EMFAC_Mix
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	EMFAC_Mix
tblTripsAndVMT	WorkerTripNumber	2.00	8.00
tblTripsAndVMT	WorkerTripNumber	2.00	4.00
tblTripsAndVMT	WorkerVehicleClass	LD_Mix	EMFAC_Mix
tblTripsAndVMT	WorkerVehicleClass	LD_Mix	EMFAC_Mix
tblTripsAndVMT	WorkerVehicleClass	LD_Mix	EMFAC_Mix
tblTripsAndVMT	WorkerVehicleClass	LD_Mix	EMFAC_Mix
tblTripsAndVMT	WorkerVehicleClass	LD_Mix	EMFAC_Mix
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00

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tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	SepticTankPercent	10.33	100.00

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	1-1-2018	3-31-2018	0.3907	0.3907
		Highest	0.3907	0.3907

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	0.0263	4.7000e-004	0.0509	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049
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	0.0263	4.7000e-004	0.0509	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049

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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	0.0263	4.7000e-004	0.0509	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049
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	0.0263	4.7000e-004	0.0509	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049

	ROG	NOx	CO	SO2	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	1/1/2018	1/12/2018	5	10	
2	Grading	Grading	1/13/2018	2/9/2018	5	20	
3	Levee Construction	Building Construction	2/10/2018	12/31/2018	5	231	
4	Floodwall Construction	Building Construction	4/2/2018	10/26/2018	5	150	
5	Paving	Paving	10/29/2018	11/23/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

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
Floodwall Construction	Cranes	1	7.00	231	0.29
Floodwall Construction	Forklifts	0	8.00	89	0.20
Floodwall Construction	Generator Sets	0	8.00	84	0.74
Grading	Excavators	2	8.00	158	0.38
Levee Construction	Cranes	0	7.00	231	0.29
Levee Construction	Forklifts	0	8.00	89	0.20
Levee Construction	Generator Sets	0	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Floodwall Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Grading	Rubber Tired Dozers	0	8.00	247	0.40

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Levee Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Levee Construction	Welders	0	8.00	46	0.45
Floodwall Construction	Welders	0	8.00	46	0.45
Levee Construction	Excavators	1	8.00	158	0.38
Levee Construction	Graders	1	8.00	187	0.41
Levee Construction	Off-Highway Trucks	1	8.00	189	0.38
Levee Construction	Rollers	2	8.00	80	0.38
Grading	Off-Highway Trucks	1	8.00	189	0.38
Grading	Sweepers/Scrubbers	1	1.00	64	0.46
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Graders	1	1.00	187	0.41
Site Preparation	Off-Highway Trucks	1	8.00	189	0.38
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Floodwall Construction	Bore/Drill Rigs	1	8.00	221	0.50
Floodwall Construction	Off-Highway Trucks	1	8.00	402	0.38
Floodwall Construction	Skid Steer Loaders	1	8.00	65	0.37

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
Floodwall Construction	4	4.00	14.00	26.00	10.80	7.30	20.00	EMFAC_Mix	EMFAC_Mix	HHDT
Levee Construction	7	8.00	4.00	2,050.00	10.80	7.30	20.00	EMFAC_Mix	EMFAC_Mix	HHDT
Grading	9	23.00	24.00	0.00	10.80	7.30	20.00	EMFAC_Mix	EMFAC_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	EMFAC_Mix	EMFAC_Mix	HHDT
Site Preparation	6	15.00	12.00	0.00	10.80	7.30	20.00	EMFAC_Mix	EMFAC_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Clean Paved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2700e-003	0.0743	0.0561	1.0000e-004		4.1300e-003	4.1300e-003		3.8000e-003	3.8000e-003	0.0000	9.0601	9.0601	2.8200e-003	0.0000	9.1307
Total	7.2700e-003	0.0743	0.0561	1.0000e-004	0.0000	4.1300e-003	4.1300e-003	0.0000	3.8000e-003	3.8000e-003	0.0000	9.0601	9.0601	2.8200e-003	0.0000	9.1307

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3.2 Site Preparation - 2018

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	1.9000e-004	5.8000e-004	1.4700e-003	0.0000	3.3000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.3861	0.3861	2.0000e-005	0.0000	0.3865
Worker	3.1000e-004	9.5000e-004	2.4800e-003	1.0000e-005	6.0000e-004	1.0000e-005	6.1000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	0.6976	0.6976	3.0000e-005	0.0000	0.6983
Total	5.0000e-004	1.5300e-003	3.9500e-003	1.0000e-005	9.3000e-004	2.0000e-005	9.4000e-004	2.5000e-004	2.0000e-005	2.6000e-004	0.0000	1.0837	1.0837	5.0000e-005	0.0000	1.0848

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2700e-003	0.0743	0.0561	1.0000e-004		4.1300e-003	4.1300e-003		3.8000e-003	3.8000e-003	0.0000	9.0601	9.0601	2.8200e-003	0.0000	9.1306
Total	7.2700e-003	0.0743	0.0561	1.0000e-004	0.0000	4.1300e-003	4.1300e-003	0.0000	3.8000e-003	3.8000e-003	0.0000	9.0601	9.0601	2.8200e-003	0.0000	9.1306

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3.2 Site Preparation - 2018

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	1.9000e-004	5.8000e-004	1.4700e-003	0.0000	3.3000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.3861	0.3861	2.0000e-005	0.0000	0.3865
Worker	3.1000e-004	9.5000e-004	2.4800e-003	1.0000e-005	6.0000e-004	1.0000e-005	6.1000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	0.6976	0.6976	3.0000e-005	0.0000	0.6983
Total	5.0000e-004	1.5300e-003	3.9500e-003	1.0000e-005	9.3000e-004	2.0000e-005	9.4000e-004	2.5000e-004	2.0000e-005	2.6000e-004	0.0000	1.0837	1.0837	5.0000e-005	0.0000	1.0848

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1200e-003	0.0000	2.1200e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2854	0.2002	3.6000e-004		0.0148	0.0148		0.0137	0.0137	0.0000	32.7481	32.7481	0.0102	0.0000	33.0030
Total	0.0263	0.2854	0.2002	3.6000e-004	2.1200e-003	0.0148	0.0170	2.3000e-004	0.0137	0.0139	0.0000	32.7481	32.7481	0.0102	0.0000	33.0030

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3.3 Grading - 2018

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	7.6000e-004	2.3400e-003	5.8800e-003	2.0000e-005	1.3100e-003	2.0000e-005	1.3300e-003	3.5000e-004	2.0000e-005	3.7000e-004	0.0000	1.5443	1.5443	7.0000e-005	0.0000	1.5459
Worker	9.5000e-004	2.9200e-003	7.6200e-003	2.0000e-005	1.8500e-003	3.0000e-005	1.8800e-003	5.0000e-004	3.0000e-005	5.3000e-004	0.0000	2.1394	2.1394	8.0000e-005	0.0000	2.1415
Total	1.7100e-003	5.2600e-003	0.0135	4.0000e-005	3.1600e-003	5.0000e-005	3.2100e-003	8.5000e-004	5.0000e-005	9.0000e-004	0.0000	3.6836	3.6836	1.5000e-004	0.0000	3.6874

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					8.3000e-004	0.0000	8.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2854	0.2002	3.6000e-004		0.0148	0.0148		0.0137	0.0137	0.0000	32.7481	32.7481	0.0102	0.0000	33.0029
Total	0.0263	0.2854	0.2002	3.6000e-004	8.3000e-004	0.0148	0.0157	9.0000e-005	0.0137	0.0137	0.0000	32.7481	32.7481	0.0102	0.0000	33.0029

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3.3 Grading - 2018

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	7.6000e-004	2.3400e-003	5.8800e-003	2.0000e-005	1.3100e-003	2.0000e-005	1.3300e-003	3.5000e-004	2.0000e-005	3.7000e-004	0.0000	1.5443	1.5443	7.0000e-005	0.0000	1.5459
Worker	9.5000e-004	2.9200e-003	7.6200e-003	2.0000e-005	1.8500e-003	3.0000e-005	1.8800e-003	5.0000e-004	3.0000e-005	5.3000e-004	0.0000	2.1394	2.1394	8.0000e-005	0.0000	2.1415
Total	1.7100e-003	5.2600e-003	0.0135	4.0000e-005	3.1600e-003	5.0000e-005	3.2100e-003	8.5000e-004	5.0000e-005	9.0000e-004	0.0000	3.6836	3.6836	1.5000e-004	0.0000	3.6874

3.4 Levee Construction - 2018

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	0.2566	2.7932	1.7447	3.3100e-003		0.1421	0.1421		0.1307	0.1307	0.0000	302.0146	302.0146	0.0940	0.0000	304.3651
Total	0.2566	2.7932	1.7447	3.3100e-003		0.1421	0.1421		0.1307	0.1307	0.0000	302.0146	302.0146	0.0940	0.0000	304.3651

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3.4 Levee Construction - 2018

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	9.8300e-003	0.3380	0.0644	8.3000e-004	0.0173	1.3400e-003	0.0187	4.7600e-003	1.2800e-003	6.0400e-003	0.0000	80.2101	80.2101	4.2500e-003	0.0000	80.3164
Vendor	1.4600e-003	4.5000e-003	0.0113	3.0000e-005	2.5200e-003	4.0000e-005	2.5600e-003	6.8000e-004	4.0000e-005	7.2000e-004	0.0000	2.9727	2.9727	1.3000e-004	0.0000	2.9758
Worker	3.8300e-003	0.0117	0.0306	9.0000e-005	7.4400e-003	1.3000e-004	7.5700e-003	2.0000e-003	1.2000e-004	2.1200e-003	0.0000	8.5947	8.5947	3.4000e-004	0.0000	8.6031
Total	0.0151	0.3543	0.1064	9.5000e-004	0.0273	1.5100e-003	0.0288	7.4400e-003	1.4400e-003	8.8800e-003	0.0000	91.7775	91.7775	4.7200e-003	0.0000	91.8953

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	0.2566	2.7932	1.7447	3.3100e-003		0.1421	0.1421		0.1307	0.1307	0.0000	302.0142	302.0142	0.0940	0.0000	304.3647
Total	0.2566	2.7932	1.7447	3.3100e-003		0.1421	0.1421		0.1307	0.1307	0.0000	302.0142	302.0142	0.0940	0.0000	304.3647

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3.4 Levee Construction - 2018

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	9.8300e-003	0.3380	0.0644	8.3000e-004	0.0173	1.3400e-003	0.0187	4.7600e-003	1.2800e-003	6.0400e-003	0.0000	80.2101	80.2101	4.2500e-003	0.0000	80.3164
Vendor	1.4600e-003	4.5000e-003	0.0113	3.0000e-005	2.5200e-003	4.0000e-005	2.5600e-003	6.8000e-004	4.0000e-005	7.2000e-004	0.0000	2.9727	2.9727	1.3000e-004	0.0000	2.9758
Worker	3.8300e-003	0.0117	0.0306	9.0000e-005	7.4400e-003	1.3000e-004	7.5700e-003	2.0000e-003	1.2000e-004	2.1200e-003	0.0000	8.5947	8.5947	3.4000e-004	0.0000	8.6031
Total	0.0151	0.3543	0.1064	9.5000e-004	0.0273	1.5100e-003	0.0288	7.4400e-003	1.4400e-003	8.8800e-003	0.0000	91.7775	91.7775	4.7200e-003	0.0000	91.8953

3.5 Floodwall Construction - 2018

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	0.1249	1.4777	0.7419	2.2300e-003		0.0555	0.0555		0.0511	0.0511	0.0000	203.4277	203.4277	0.0633	0.0000	205.0109
Total	0.1249	1.4777	0.7419	2.2300e-003		0.0555	0.0555		0.0511	0.0511	0.0000	203.4277	203.4277	0.0633	0.0000	205.0109

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3.5 Floodwall Construction - 2018

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	1.2000e-004	4.2900e-003	8.2000e-004	1.0000e-005	2.2000e-004	2.0000e-005	2.4000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	1.0173	1.0173	5.0000e-005	0.0000	1.0187
Vendor	3.3100e-003	0.0102	0.0257	7.0000e-005	5.7200e-003	1.0000e-004	5.8200e-003	1.5400e-003	9.0000e-005	1.6300e-003	0.0000	6.7562	6.7562	2.8000e-004	0.0000	6.7633
Worker	1.2400e-003	3.8100e-003	9.9300e-003	3.0000e-005	2.4200e-003	4.0000e-005	2.4600e-003	6.5000e-004	4.0000e-005	6.9000e-004	0.0000	2.7905	2.7905	1.1000e-004	0.0000	2.7932
Total	4.6700e-003	0.0183	0.0365	1.1000e-004	8.3600e-003	1.6000e-004	8.5200e-003	2.2500e-003	1.5000e-004	2.4000e-003	0.0000	10.5639	10.5639	4.4000e-004	0.0000	10.5751

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	0.1249	1.4777	0.7419	2.2300e-003		0.0555	0.0555		0.0511	0.0511	0.0000	203.4275	203.4275	0.0633	0.0000	205.0107
Total	0.1249	1.4777	0.7419	2.2300e-003		0.0555	0.0555		0.0511	0.0511	0.0000	203.4275	203.4275	0.0633	0.0000	205.0107

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3.5 Floodwall Construction - 2018

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	1.2000e-004	4.2900e-003	8.2000e-004	1.0000e-005	2.2000e-004	2.0000e-005	2.4000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	1.0173	1.0173	5.0000e-005	0.0000	1.0187
Vendor	3.3100e-003	0.0102	0.0257	7.0000e-005	5.7200e-003	1.0000e-004	5.8200e-003	1.5400e-003	9.0000e-005	1.6300e-003	0.0000	6.7562	6.7562	2.8000e-004	0.0000	6.7633
Worker	1.2400e-003	3.8100e-003	9.9300e-003	3.0000e-005	2.4200e-003	4.0000e-005	2.4600e-003	6.5000e-004	4.0000e-005	6.9000e-004	0.0000	2.7905	2.7905	1.1000e-004	0.0000	2.7932
Total	4.6700e-003	0.0183	0.0365	1.1000e-004	8.3600e-003	1.6000e-004	8.5200e-003	2.2500e-003	1.5000e-004	2.4000e-003	0.0000	10.5639	10.5639	4.4000e-004	0.0000	10.5751

3.6 Paving - 2018

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	0.0164	0.1752	0.1480	2.3000e-004		9.5600e-003	9.5600e-003		8.8000e-003	8.8000e-003	0.0000	20.8116	20.8116	6.4800e-003	0.0000	20.9736
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0164	0.1752	0.1480	2.3000e-004		9.5600e-003	9.5600e-003		8.8000e-003	8.8000e-003	0.0000	20.8116	20.8116	6.4800e-003	0.0000	20.9736

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3.6 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	1.9100e-003	4.9700e-003	2.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.2000e-004	2.0000e-005	3.4000e-004	0.0000	1.3952	1.3952	5.0000e-005	0.0000	1.3966
Total	6.2000e-004	1.9100e-003	4.9700e-003	2.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.2000e-004	2.0000e-005	3.4000e-004	0.0000	1.3952	1.3952	5.0000e-005	0.0000	1.3966

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	0.0164	0.1752	0.1480	2.3000e-004		9.5600e-003	9.5600e-003		8.8000e-003	8.8000e-003	0.0000	20.8116	20.8116	6.4800e-003	0.0000	20.9736
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0164	0.1752	0.1480	2.3000e-004		9.5600e-003	9.5600e-003		8.8000e-003	8.8000e-003	0.0000	20.8116	20.8116	6.4800e-003	0.0000	20.9736

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3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	1.9100e-003	4.9700e-003	2.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.2000e-004	2.0000e-005	3.4000e-004	0.0000	1.3952	1.3952	5.0000e-005	0.0000	1.3966
Total	6.2000e-004	1.9100e-003	4.9700e-003	2.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.2000e-004	2.0000e-005	3.4000e-004	0.0000	1.3952	1.3952	5.0000e-005	0.0000	1.3966

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
User Defined Industrial	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
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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					
User Defined Industrial	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			
User Defined Industrial	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			
User Defined Industrial	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	0.0263	4.7000e-004	0.0509	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049
Unmitigated	0.0263	4.7000e-004	0.0509	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049

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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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7800e-003	4.7000e-004	0.0509	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049
Total	0.0263	4.7000e-004	0.0509	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049

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	0.0000	0.0000
Consumer Products	0.0215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7800e-003	4.7000e-004	0.0509	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049
Total	0.0263	4.7000e-004	0.0509	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0983	0.0983	2.6000e-004	0.0000	0.1049

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			
User Defined Industrial	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			
User Defined Industrial	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			
User Defined Industrial	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			
User Defined Industrial	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
