

CalEEMod Output

Unmitigated 2022

1000 Gibraltar.v1 - Santa Clara County, Annual

1000 Gibraltar.v1
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.00	1000sqft	0.00	5,000.00	0
Refrigerated Warehouse-Rail	486.00	1000sqft	29.00	486,000.00	0
Parking Lot	346.00	Space	0.00	138,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	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 - CO2 Intensity factor updated to the most recent (2018) value.

Land Use - Square footage is approximate. Parking sqft based on CalEEMod default.

Construction Phase - Project-specific construction phases to conserve total days per phase

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

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Off-road Equipment - Update to project specific information

Trips and VMT - 184*2 trips for asphalt trucks and 2251*2=4502 trips for cement trucks

Demolition - According to RFI

Grading - 2,300 CYDS asphalt imported for paving phase later on. 28,140 cyds (2,251 trips) for cement.

Vehicle Trips - Assign all passenger car trips to office, all van trips to parking lot, all trucks to warehouse land use. Trip rates and lengths adjusted to match total VMT.

Area Coating -

Energy Use -

Water And Wastewater - Water treatment in this area does not include septic tank or lagoons.

Solid Waste -

Operational Off-Road Equipment -

Fleet Mix - Fleet mix for commute trips, vans, and truck trips were based on another similar warehouse project.

Stationary Sources - Emergency Generators and Fire Pumps - Project would include a fire pump on site.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	41.00
tblConstructionPhase	NumDays	440.00	28.00
tblConstructionPhase	NumDays	30.00	25.00

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tblConstructionPhase	NumDays	45.00	14.00
tblConstructionPhase	NumDays	35.00	15.00
tblConstructionPhase	NumDays	20.00	15.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.15
tblFleetMix	LDA	0.61	0.50
tblFleetMix	LDA	0.61	0.20
tblFleetMix	LDA	0.61	0.00
tblFleetMix	LDT1	0.04	0.25
tblFleetMix	LDT1	0.04	0.10
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.25
tblFleetMix	LDT2	0.18	0.10
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.20
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	5.0070e-003	0.00
tblFleetMix	LHD2	5.0070e-003	0.20
tblFleetMix	LHD2	5.0070e-003	0.00
tblFleetMix	MCY	5.3120e-003	0.00
tblFleetMix	MCY	5.3120e-003	0.00
tblFleetMix	MCY	5.3120e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.20
tblFleetMix	MDV	0.11	0.00

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tblFleetMix	MH	7.4000e-004	0.00
tblFleetMix	MH	7.4000e-004	0.00
tblFleetMix	MH	7.4000e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.85
tblFleetMix	OBUS	2.1440e-003	0.00
tblFleetMix	OBUS	2.1440e-003	0.00
tblFleetMix	OBUS	2.1440e-003	0.00
tblFleetMix	SBUS	6.2700e-004	0.00
tblFleetMix	SBUS	6.2700e-004	0.00
tblFleetMix	SBUS	6.2700e-004	0.00
tblFleetMix	UBUS	1.5480e-003	0.00
tblFleetMix	UBUS	1.5480e-003	0.00
tblFleetMix	UBUS	1.5480e-003	0.00
tblGrading	MaterialImported	0.00	28,140.00
tblGrading	MaterialImported	0.00	2,300.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	11.16	29.00
tblLandUse	LotAcreage	3.11	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00

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tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	UsageHours	8.00	4.80
tbOffRoadEquipment	UsageHours	7.00	1.20
tbOffRoadEquipment	UsageHours	8.00	6.40
tbOffRoadEquipment	UsageHours	8.00	2.90
tbOffRoadEquipment	UsageHours	8.00	5.50
tbOffRoadEquipment	UsageHours	8.00	5.50
tbOffRoadEquipment	UsageHours	8.00	5.70
tbOffRoadEquipment	UsageHours	8.00	6.40
tbOffRoadEquipment	UsageHours	8.00	6.40
tbOffRoadEquipment	UsageHours	8.00	6.40
tbOffRoadEquipment	UsageHours	8.00	4.80
tbOffRoadEquipment	UsageHours	8.00	3.40
tbOffRoadEquipment	UsageHours	8.00	4.80
tbOffRoadEquipment	UsageHours	7.00	3.90

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tblOffRoadEquipment	UsageHours	8.00	6.90
tblOffRoadEquipment	UsageHours	8.00	5.30
tblOffRoadEquipment	UsageHours	8.00	3.50
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	175.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	3,518.00	4,502.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblVehicleTrips	CC_TL	7.30	8.10
tblVehicleTrips	CC_TL	7.30	10.00
tblVehicleTrips	CC_TL	7.30	30.00
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00

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tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	29.44
tblVehicleTrips	ST_TR	0.00	1.46
tblVehicleTrips	ST_TR	1.68	0.69
tblVehicleTrips	SU_TR	1.05	12.57
tblVehicleTrips	SU_TR	0.00	0.62
tblVehicleTrips	SU_TR	1.68	0.62
tblVehicleTrips	WD_TR	11.03	132.00
tblVehicleTrips	WD_TR	0.00	6.55
tblVehicleTrips	WD_TR	1.68	0.69
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589

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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-4-2021	4-3-2021	1.5271	1.5271
2	4-4-2021	7-3-2021	0.4443	0.4443
3	7-4-2021	9-30-2021	0.5496	0.5496
		Highest	1.5271	1.5271

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	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	1.1739	12.9682	11.7845	0.0875	4.6583	0.0842	4.7425	1.3121	0.0800	1.3922	0.0000	8,180.7872	8,180.7872	0.1441	0.0000	8,184.3888
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.3776	13.0827	11.8897	0.0881	4.6583	0.0925	4.7508	1.3121	0.0883	1.4004	133.7556	8,799.8679	8,933.6235	5.8929	0.1040	9,111.9332

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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	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	1.1739	12.9682	11.7845	0.0875	4.6583	0.0842	4.7425	1.3121	0.0800	1.3922	0.0000	8,180.7872	8,180.7872	0.1441	0.0000	8,184.3888
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.3776	13.0827	11.8897	0.0881	4.6583	0.0925	4.7508	1.3121	0.0883	1.4004	133.7556	8,799.8679	8,933.6235	5.8929	0.1040	9,111.9332

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/4/2021	2/5/2021	5	25	
2	Site Preparation	Site Preparation	2/6/2021	2/26/2021	5	15	
3	Grading and Excavation	Grading	2/27/2021	3/18/2021	5	14	
4	Trenching and Foundation	Trenching	3/19/2021	5/27/2021	5	50	
5	Building Exterior	Building Construction	5/28/2021	7/23/2021	5	41	
6	Paving	Paving	7/24/2021	8/13/2021	5	15	
7	Building Interior and Arch Coating	Building Construction	8/14/2021	9/22/2021	5	28	

Acres of Grading (Site Preparation Phase): 7.59

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
Demolition	Concrete/Industrial Saws	4	4.80	81	0.73
Demolition	Excavators	1	6.40	158	0.38
Demolition	Rubber Tired Dozers	1	4.80	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.40	97	0.37
Site Preparation	Graders	3	2.70	187	0.41
Site Preparation	Rubber Tired Dozers	3	4.80	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	5.30	97	0.37
Grading and Excavation	Concrete/Industrial Saws	2	3.40	81	0.73
Grading and Excavation	Excavators	1	2.90	158	0.38

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Grading and Excavation	Graders	3	5.70	187	0.41
Grading and Excavation	Rubber Tired Dozers	2	3.40	247	0.40
Grading and Excavation	Scrapers	0	8.00	367	0.48
Grading and Excavation	Tractors/Loaders/Backhoes	2	6.90	97	0.37
Trenching and Foundation	Excavators	1	4.80	158	0.38
Trenching and Foundation	Tractors/Loaders/Backhoes	2	4.80	97	0.37
Building Exterior	Cranes	1	1.20	231	0.29
Building Exterior	Forklifts	2	5.50	89	0.20
Building Exterior	Generator Sets	4	5.50	84	0.74
Building Exterior	Tractors/Loaders/Backhoes	1	3.90	97	0.37
Building Exterior	Welders	3	3.50	46	0.45
Paving	Pavers	1	6.40	130	0.42
Paving	Paving Equipment	1	6.40	132	0.36
Paving	Rollers	1	6.40	80	0.38
Building Interior and Arch Coating	Aerial Lifts	2	8.00	63	0.31
Building Interior and Arch Coating	Air Compressors	2	8.00	78	0.48
Building Interior and Arch Coating	Cranes	0	7.00	231	0.29
Building Interior and Arch Coating	Forklifts	0	8.00	89	0.20
Building Interior and Arch Coating	Generator Sets	0	8.00	84	0.74
Building Interior and Arch Coating	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Interior and Arch Coating	Welders	0	8.00	46	0.45

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
Demolition	8	20.00	0.00	989.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	288.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading and Excavation	10	25.00	0.00	4,502.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Foundation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Exterior	11	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	368.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Interior and Arch Coating	4	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058

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3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

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					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057

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3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

3.3 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054

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3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

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					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053

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3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

3.4 Grading and Excavation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

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					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

3.5 Trenching and Foundation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

3.6 Building Exterior - 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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

3.7 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

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	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

3.8 Building Interior and Arch Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

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	1.1739	12.9682	11.7845	0.0875	4.6583	0.0842	4.7425	1.3121	0.0800	1.3922	0.0000	8,180.787 2	8,180.787 2	0.1441	0.0000	8,184.388 8
Unmitigated	1.1739	12.9682	11.7845	0.0875	4.6583	0.0842	4.7425	1.3121	0.0800	1.3922	0.0000	8,180.787 2	8,180.787 2	0.1441	0.0000	8,184.388 8

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	660.00	147.20	62.85	1,478,433	1,478,433
Parking Lot	2,266.30	505.16	214.52	6,266,614	6,266,614
Refrigerated Warehouse-Rail	335.34	335.34	301.32	3,608,842	3,608,842
Total	3,261.64	987.70	578.69	11,353,888	11,353,888

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
General Office Building	0.00	8.10	0.00	0.00	100.00	0.00	100	0	0
Parking Lot	0.00	10.00	0.00	0.00	100.00	0.00	100	0	0
Refrigerated Warehouse-Rail	0.00	30.00	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.200000	0.100000	0.100000	0.200000	0.200000	0.200000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Refrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.850000	0.150000	0.000000	0.000000	0.000000	0.000000	0.000000

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	455.6220	455.6220	0.0641	0.0133	461.1801
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	455.6220	455.6220	0.0641	0.0133	461.1801
NaturalGas Mitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708
NaturalGas Unmitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708

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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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

6.0 Area Detail

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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	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Unmitigated	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.2000e-004	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.2000e-004	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	97.5283	0.1460	0.0888	127.6499
Unmitigated	97.5283	0.1460	0.0888	127.6499

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	93.6783	5.5362	0.0000	232.0840
Unmitigated	93.6783	5.5362	0.0000	232.0840

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Fire Pump	1	1	50	175	0.73	Diesel

Boilers

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

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Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Fire Pump - Diesel (175 - 300 HP)	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Total	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437

11.0 Vegetation

CalEEMod Output

Mitigated 2022

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.00	1000sqft	0.00	5,000.00	0
Refrigerated Warehouse-Rail	486.00	1000sqft	29.00	486,000.00	0
Parking Lot	346.00	Space	0.00	138,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	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 - CO2 Intensity factor updated to the most recent (2018) value.

Land Use - Square footage is approximate. Parking sqft based on CalEEMod default.

Construction Phase - Project-specific construction phases to conserve total days per phase

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project specific information

Trips and VMT - 184*2 trips for asphalt trucks and 2251*2=4502 trips for cement trucks

Demolition - According to RFI

Grading - 2,300 CYDS asphalt imported for paving phase later on. 28,140 cyds (2,251 trips) for cement.

Vehicle Trips - Assign all passenger car trips to office, all van trips to parking lot, all trucks to warehouse land use. Trip rates and lengths adjusted to match total VMT.

Vehicle Emission Factors - Emission Factor updated for 2010+ model year MHD and HHD trucks.

Area Coating -

Energy Use -

Water And Wastewater - Water treatment in this area does not include septic tank or lagoons.

Solid Waste -

Operational Off-Road Equipment -

Fleet Mix - Fleet mix for commute trips, vans, and truck trips were based on another similar warehouse project.

Stationary Sources - Emergency Generators and Fire Pumps - Project would include a fire pump on site.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	41.00
tblConstructionPhase	NumDays	440.00	28.00

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tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	45.00	14.00
tblConstructionPhase	NumDays	35.00	15.00
tblConstructionPhase	NumDays	20.00	15.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.15
tblFleetMix	LDA	0.61	0.50
tblFleetMix	LDA	0.61	0.20
tblFleetMix	LDA	0.61	0.00
tblFleetMix	LDT1	0.04	0.25
tblFleetMix	LDT1	0.04	0.10
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.25
tblFleetMix	LDT2	0.18	0.10
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.20
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	5.0070e-003	0.00
tblFleetMix	LHD2	5.0070e-003	0.20
tblFleetMix	LHD2	5.0070e-003	0.00
tblFleetMix	MCY	5.3120e-003	0.00
tblFleetMix	MCY	5.3120e-003	0.00
tblFleetMix	MCY	5.3120e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.20

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tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	7.4000e-004	0.00
tblFleetMix	MH	7.4000e-004	0.00
tblFleetMix	MH	7.4000e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.85
tblFleetMix	OBUS	2.1440e-003	0.00
tblFleetMix	OBUS	2.1440e-003	0.00
tblFleetMix	OBUS	2.1440e-003	0.00
tblFleetMix	SBUS	6.2700e-004	0.00
tblFleetMix	SBUS	6.2700e-004	0.00
tblFleetMix	SBUS	6.2700e-004	0.00
tblFleetMix	UBUS	1.5480e-003	0.00
tblFleetMix	UBUS	1.5480e-003	0.00
tblFleetMix	UBUS	1.5480e-003	0.00
tblGrading	MaterialImported	0.00	28,140.00
tblGrading	MaterialImported	0.00	2,300.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	11.16	29.00
tblLandUse	LotAcreage	3.11	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
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	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	UsageHours	8.00	4.80
tbloffRoadEquipment	UsageHours	7.00	1.20
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	2.90
tbloffRoadEquipment	UsageHours	8.00	5.50
tbloffRoadEquipment	UsageHours	8.00	5.50
tbloffRoadEquipment	UsageHours	8.00	5.70
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	4.80
tbloffRoadEquipment	UsageHours	8.00	3.40
tbloffRoadEquipment	UsageHours	8.00	4.80

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tblOffRoadEquipment	UsageHours	7.00	3.90
tblOffRoadEquipment	UsageHours	8.00	6.90
tblOffRoadEquipment	UsageHours	8.00	5.30
tblOffRoadEquipment	UsageHours	8.00	3.50
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblTripsAndVMT	HaulingTripNumber	3,518.00	4,502.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblVehicleEF	HHD	0.47	0.28
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	0.09	1.0000e-006
tblVehicleEF	HHD	2.43	71.40
tblVehicleEF	HHD	0.99	0.43
tblVehicleEF	HHD	3.63	4.3360e-003
tblVehicleEF	HHD	4,565.51	12,338.11
tblVehicleEF	HHD	1,620.25	1,440.85
tblVehicleEF	HHD	11.46	0.02
tblVehicleEF	HHD	19.86	59.60
tblVehicleEF	HHD	3.59	2.70
tblVehicleEF	HHD	19.45	2.29
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0200e-004	0.00
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8280e-003	8.8780e-003

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tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.9000e-005	1.0000e-006
tblVehicleEF	HHD	5.3040e-003	4.0000e-006
tblVehicleEF	HHD	0.62	4.88
tblVehicleEF	HHD	6.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.13	0.04
tblVehicleEF	HHD	4.5600e-004	1.0000e-005
tblVehicleEF	HHD	0.10	3.0000e-006
tblVehicleEF	HHD	0.04	0.11
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.7500e-004	0.00
tblVehicleEF	HHD	9.9000e-005	1.0000e-006
tblVehicleEF	HHD	5.3040e-003	4.0000e-006
tblVehicleEF	HHD	0.72	5.61
tblVehicleEF	HHD	6.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.20	0.09
tblVehicleEF	HHD	4.5600e-004	1.0000e-005
tblVehicleEF	HHD	0.11	3.0000e-006
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	5.7650e-003	9.1800e-004
tblVehicleEF	MHD	0.05	6.2140e-003
tblVehicleEF	MHD	0.40	4.13
tblVehicleEF	MHD	0.42	0.12
tblVehicleEF	MHD	6.48	0.60
tblVehicleEF	MHD	137.16	777.17
tblVehicleEF	MHD	1,201.31	1,102.19

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tblVehicleEF	MHD	61.41	6.92
tblVehicleEF	MHD	0.54	3.42
tblVehicleEF	MHD	1.54	1.38
tblVehicleEF	MHD	10.30	1.74
tblVehicleEF	MHD	7.6500e-004	8.3400e-004
tblVehicleEF	MHD	6.5420e-003	6.9700e-003
tblVehicleEF	MHD	9.3800e-004	7.5000e-005
tblVehicleEF	MHD	7.3200e-004	7.9800e-004
tblVehicleEF	MHD	6.2530e-003	6.6630e-003
tblVehicleEF	MHD	8.6200e-004	6.9000e-005
tblVehicleEF	MHD	9.7300e-004	9.4000e-004
tblVehicleEF	MHD	0.04	2.8960e-003
tblVehicleEF	MHD	0.03	0.18
tblVehicleEF	MHD	4.9200e-004	5.1200e-004
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.38	0.03
tblVehicleEF	MHD	1.3210e-003	7.3680e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2700e-004	6.8000e-005
tblVehicleEF	MHD	9.7300e-004	9.4000e-004
tblVehicleEF	MHD	0.04	2.8960e-003
tblVehicleEF	MHD	0.04	0.24
tblVehicleEF	MHD	4.9200e-004	5.1200e-004
tblVehicleEF	MHD	0.07	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.42	0.03

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tblVehicleTrips	CC_TL	7.30	8.10
tblVehicleTrips	CC_TL	7.30	10.00
tblVehicleTrips	CC_TL	7.30	30.00
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	29.44
tblVehicleTrips	ST_TR	0.00	1.46
tblVehicleTrips	ST_TR	1.68	0.69
tblVehicleTrips	SU_TR	1.05	12.57

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tblVehicleTrips	SU_TR	0.00	0.62
tblVehicleTrips	SU_TR	1.68	0.62
tblVehicleTrips	WD_TR	11.03	132.00
tblVehicleTrips	WD_TR	0.00	6.55
tblVehicleTrips	WD_TR	1.68	0.69
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589

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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-4-2021	4-3-2021	1.5271	1.5271
2	4-4-2021	7-3-2021	0.4443	0.4443
3	7-4-2021	9-30-2021	0.5496	0.5496
		Highest	1.5271	1.5271

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	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	1.0173	11.7023	11.5076	0.0849	4.6585	0.0928	4.7512	1.3122	0.0882	1.4004	0.0000	7,979.7551	7,979.7551	0.1159	0.0000	7,982.6524
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.2211	11.8167	11.6128	0.0855	4.6585	0.1010	4.7595	1.3122	0.0965	1.4086	133.7556	8,598.8358	8,732.5914	5.8648	0.1040	8,910.1968

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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	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	1.0173	11.7023	11.5076	0.0849	4.6585	0.0928	4.7512	1.3122	0.0882	1.4004	0.0000	7,979.7551	7,979.7551	0.1159	0.0000	7,982.6524
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.2211	11.8167	11.6128	0.0855	4.6585	0.1010	4.7595	1.3122	0.0965	1.4086	133.7556	8,598.8358	8,732.5914	5.8648	0.1040	8,910.1968

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/4/2021	2/5/2021	5	25	
2	Site Preparation	Site Preparation	2/6/2021	2/26/2021	5	15	
3	Grading and Excavation	Grading	2/27/2021	3/18/2021	5	14	
4	Trenching and Foundation	Trenching	3/19/2021	5/27/2021	5	50	
5	Building Exterior	Building Construction	5/28/2021	7/23/2021	5	41	
6	Paving	Paving	7/24/2021	8/13/2021	5	15	
7	Building Interior and Arch Coating	Building Construction	8/14/2021	9/22/2021	5	28	

Acres of Grading (Site Preparation Phase): 7.59

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
Demolition	Concrete/Industrial Saws	4	4.80	81	0.73
Demolition	Excavators	1	6.40	158	0.38
Demolition	Rubber Tired Dozers	1	4.80	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.40	97	0.37
Site Preparation	Graders	3	2.70	187	0.41
Site Preparation	Rubber Tired Dozers	3	4.80	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	5.30	97	0.37
Grading and Excavation	Concrete/Industrial Saws	2	3.40	81	0.73
Grading and Excavation	Excavators	1	2.90	158	0.38

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Grading and Excavation	Graders	3	5.70	187	0.41
Grading and Excavation	Rubber Tired Dozers	2	3.40	247	0.40
Grading and Excavation	Scrapers	0	8.00	367	0.48
Grading and Excavation	Tractors/Loaders/Backhoes	2	6.90	97	0.37
Trenching and Foundation	Excavators	1	4.80	158	0.38
Trenching and Foundation	Tractors/Loaders/Backhoes	2	4.80	97	0.37
Building Exterior	Cranes	1	1.20	231	0.29
Building Exterior	Forklifts	2	5.50	89	0.20
Building Exterior	Generator Sets	4	5.50	84	0.74
Building Exterior	Tractors/Loaders/Backhoes	1	3.90	97	0.37
Building Exterior	Welders	3	3.50	46	0.45
Paving	Pavers	1	6.40	130	0.42
Paving	Paving Equipment	1	6.40	132	0.36
Paving	Rollers	1	6.40	80	0.38
Building Interior and Arch Coating	Aerial Lifts	2	8.00	63	0.31
Building Interior and Arch Coating	Air Compressors	2	8.00	78	0.48
Building Interior and Arch Coating	Cranes	0	7.00	231	0.29
Building Interior and Arch Coating	Forklifts	0	8.00	89	0.20
Building Interior and Arch Coating	Generator Sets	0	8.00	84	0.74
Building Interior and Arch Coating	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Interior and Arch Coating	Welders	0	8.00	46	0.45

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
Demolition	8	20.00	0.00	989.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	288.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading and Excavation	10	25.00	0.00	4,502.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Foundation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Exterior	11	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	368.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Interior and Arch Coating	4	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058

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3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

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					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057

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3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

3.3 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054

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3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

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					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053

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3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

3.4 Grading and Excavation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

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					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

3.5 Trenching and Foundation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

3.6 Building Exterior - 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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

3.7 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

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	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

3.8 Building Interior and Arch Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

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	1.0173	11.7023	11.5076	0.0849	4.6585	0.0928	4.7512	1.3122	0.0882	1.4004	0.0000	7,979.755 1	7,979.755 1	0.1159	0.0000	7,982.652 4
Unmitigated	1.0173	11.7023	11.5076	0.0849	4.6585	0.0928	4.7512	1.3122	0.0882	1.4004	0.0000	7,979.755 1	7,979.755 1	0.1159	0.0000	7,982.652 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	660.00	147.20	62.85	1,478,433	1,478,433
Parking Lot	2,266.30	505.16	214.52	6,266,614	6,266,614
Refrigerated Warehouse-Rail	335.34	335.34	301.32	3,608,842	3,608,842
Total	3,261.64	987.70	578.69	11,353,888	11,353,888

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
General Office Building	0.00	8.10	0.00	0.00	100.00	0.00	100	0	0
Parking Lot	0.00	10.00	0.00	0.00	100.00	0.00	100	0	0
Refrigerated Warehouse-Rail	0.00	30.00	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.200000	0.100000	0.100000	0.200000	0.200000	0.200000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Refrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.850000	0.150000	0.000000	0.000000	0.000000	0.000000	0.000000

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	455.6220	455.6220	0.0641	0.0133	461.1801
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	455.6220	455.6220	0.0641	0.0133	461.1801
NaturalGas Mitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708
NaturalGas Unmitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708

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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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

6.0 Area Detail

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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	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Unmitigated	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.2000e-004	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.2000e-004	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.7000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	97.5283	0.1460	0.0888	127.6499
Unmitigated	97.5283	0.1460	0.0888	127.6499

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	93.6783	5.5362	0.0000	232.0840
Unmitigated	93.6783	5.5362	0.0000	232.0840

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

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
Fire Pump	1	1	50	175	0.73	Diesel

Boilers

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

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Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Fire Pump - Diesel (175 - 300 HP)	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Total	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437

11.0 Vegetation

CalEEMod Output

Unmitigated 2023

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.00	1000sqft	0.00	5,000.00	0
Refrigerated Warehouse-Rail	486.00	1000sqft	29.00	486,000.00	0
Parking Lot	346.00	Space	0.00	138,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	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 - CO2 Intensity factor updated to the most recent (2018) value.

Land Use - Square footage is approximate. Parking sqft based on CalEEMod default.

Construction Phase - Project-specific construction phases to conserve total days per phase

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project specific information

Trips and VMT - 184*2 trips for asphalt trucks and 2251*2=4502 trips for cement trucks

Demolition - According to RFI

Grading - 2,300 CYDS asphalt imported for paving phase later on. 28,140 cyds (2,251 trips) for cement.

Vehicle Trips - Assign all passenger car trips to office, all van trips to parking lot, all trucks to warehouse land use. Trip rates and lengths adjusted to match total VMT.

Vehicle Emission Factors - Emission Factor updated for 2010+ model year MHD and HHD trucks.

Area Coating -

Energy Use -

Water And Wastewater - Water treatment in this area does not include septic tank or lagoons.

Solid Waste -

Operational Off-Road Equipment -

Fleet Mix - Fleet mix for commute trips, vans, and truck trips were based on another similar warehouse project.

Stationary Sources - Emergency Generators and Fire Pumps - Project would include a fire pump on site.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	41.00
tblConstructionPhase	NumDays	440.00	28.00

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tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	45.00	14.00
tblConstructionPhase	NumDays	35.00	15.00
tblConstructionPhase	NumDays	20.00	15.00
tblGrading	MaterialImported	0.00	28,140.00
tblGrading	MaterialImported	0.00	2,300.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	11.16	29.00
tblLandUse	LotAcreage	3.11	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
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	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	7.00	1.20
tblOffRoadEquipment	UsageHours	8.00	6.40
tblOffRoadEquipment	UsageHours	8.00	2.90
tblOffRoadEquipment	UsageHours	8.00	5.50
tblOffRoadEquipment	UsageHours	8.00	5.50
tblOffRoadEquipment	UsageHours	8.00	5.70
tblOffRoadEquipment	UsageHours	8.00	6.40
tblOffRoadEquipment	UsageHours	8.00	6.40
tblOffRoadEquipment	UsageHours	8.00	6.40
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	8.00	3.40
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	7.00	3.90
tblOffRoadEquipment	UsageHours	8.00	6.90
tblOffRoadEquipment	UsageHours	8.00	5.30
tblOffRoadEquipment	UsageHours	8.00	3.50
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblTripsAndVMT	HaulingTripNumber	3,518.00	4,502.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblVehicleTrips	CC_TL	7.30	8.10
tblVehicleTrips	CC_TL	7.30	10.00
tblVehicleTrips	CC_TL	7.30	30.00
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00

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tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	29.44
tblVehicleTrips	ST_TR	0.00	1.46
tblVehicleTrips	ST_TR	1.68	0.69
tblVehicleTrips	SU_TR	1.05	12.57
tblVehicleTrips	SU_TR	0.00	0.62
tblVehicleTrips	SU_TR	1.68	0.62
tblVehicleTrips	WD_TR	11.03	132.00
tblVehicleTrips	WD_TR	0.00	6.55
tblVehicleTrips	WD_TR	1.68	0.69

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tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589

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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-4-2021	4-3-2021	1.5271	1.5271
2	4-4-2021	7-3-2021	0.4443	0.4443
3	7-4-2021	9-30-2021	0.5496	0.5496
		Highest	1.5271	1.5271

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	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	1.0424	10.0032	10.7669	0.0858	4.6584	0.0647	4.7231	1.3122	0.0614	1.3735	0.0000	8,026.0013	8,026.0013	0.1288	0.0000	8,029.2205
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.2461	10.1176	10.8721	0.0864	4.6584	0.0730	4.7314	1.3122	0.0696	1.3818	133.7556	8,645.0820	8,778.8376	5.8777	0.1040	8,956.7649

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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	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	1.0424	10.0032	10.7669	0.0858	4.6584	0.0647	4.7231	1.3122	0.0614	1.3735	0.0000	8,026.0013	8,026.0013	0.1288	0.0000	8,029.2205
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.2461	10.1176	10.8721	0.0864	4.6584	0.0730	4.7314	1.3122	0.0696	1.3818	133.7556	8,645.0820	8,778.8376	5.8777	0.1040	8,956.7649

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/4/2021	2/5/2021	5	25	
2	Site Preparation	Site Preparation	2/6/2021	2/26/2021	5	15	
3	Grading and Excavation	Grading	2/27/2021	3/18/2021	5	14	
4	Trenching and Foundation	Trenching	3/19/2021	5/27/2021	5	50	
5	Building Exterior	Building Construction	5/28/2021	7/23/2021	5	41	
6	Paving	Paving	7/24/2021	8/13/2021	5	15	
7	Building Interior and Arch Coating	Building Construction	8/14/2021	9/22/2021	5	28	

Acres of Grading (Site Preparation Phase): 7.59

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
Demolition	Concrete/Industrial Saws	4	4.80	81	0.73
Demolition	Excavators	1	6.40	158	0.38
Demolition	Rubber Tired Dozers	1	4.80	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.40	97	0.37
Site Preparation	Graders	3	2.70	187	0.41
Site Preparation	Rubber Tired Dozers	3	4.80	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	5.30	97	0.37
Grading and Excavation	Concrete/Industrial Saws	2	3.40	81	0.73
Grading and Excavation	Excavators	1	2.90	158	0.38

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Grading and Excavation	Graders	3	5.70	187	0.41
Grading and Excavation	Rubber Tired Dozers	2	3.40	247	0.40
Grading and Excavation	Scrapers	0	8.00	367	0.48
Grading and Excavation	Tractors/Loaders/Backhoes	2	6.90	97	0.37
Trenching and Foundation	Excavators	1	4.80	158	0.38
Trenching and Foundation	Tractors/Loaders/Backhoes	2	4.80	97	0.37
Building Exterior	Cranes	1	1.20	231	0.29
Building Exterior	Forklifts	2	5.50	89	0.20
Building Exterior	Generator Sets	4	5.50	84	0.74
Building Exterior	Tractors/Loaders/Backhoes	1	3.90	97	0.37
Building Exterior	Welders	3	3.50	46	0.45
Paving	Pavers	1	6.40	130	0.42
Paving	Paving Equipment	1	6.40	132	0.36
Paving	Rollers	1	6.40	80	0.38
Building Interior and Arch Coating	Aerial Lifts	2	8.00	63	0.31
Building Interior and Arch Coating	Air Compressors	2	8.00	78	0.48
Building Interior and Arch Coating	Cranes	0	7.00	231	0.29
Building Interior and Arch Coating	Forklifts	0	8.00	89	0.20
Building Interior and Arch Coating	Generator Sets	0	8.00	84	0.74
Building Interior and Arch Coating	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Interior and Arch Coating	Welders	0	8.00	46	0.45

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
Demolition	8	20.00	0.00	989.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	288.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading and Excavation	10	25.00	0.00	4,502.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Foundation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Exterior	11	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	368.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Interior and Arch Coating	4	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058

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3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

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					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057

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3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

3.3 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054

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3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

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					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053

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3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

3.4 Grading and Excavation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

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					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

3.5 Trenching and Foundation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

3.6 Building Exterior - 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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

3.7 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

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	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

3.8 Building Interior and Arch Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

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	1.0424	10.0032	10.7669	0.0858	4.6584	0.0647	4.7231	1.3122	0.0614	1.3735	0.0000	8,026.0013	8,026.0013	0.1288	0.0000	8,029.2205
Unmitigated	1.0424	10.0032	10.7669	0.0858	4.6584	0.0647	4.7231	1.3122	0.0614	1.3735	0.0000	8,026.0013	8,026.0013	0.1288	0.0000	8,029.2205

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	660.00	147.20	62.85	1,478,433	1,478,433
Parking Lot	2,266.30	505.16	214.52	6,266,614	6,266,614
Refrigerated Warehouse-Rail	335.34	335.34	301.32	3,608,842	3,608,842
Total	3,261.64	987.70	578.69	11,353,888	11,353,888

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
General Office Building	0.00	8.10	0.00	0.00	100.00	0.00	100	0	0
Parking Lot	0.00	10.00	0.00	0.00	100.00	0.00	100	0	0
Refrigerated Warehouse-Rail	0.00	30.00	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.200000	0.100000	0.100000	0.200000	0.200000	0.200000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Refrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.850000	0.150000	0.000000	0.000000	0.000000	0.000000	0.000000

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	455.6220	455.6220	0.0641	0.0133	461.1801
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	455.6220	455.6220	0.0641	0.0133	461.1801
NaturalGas Mitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708
NaturalGas Unmitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708

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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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

6.0 Area Detail

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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	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Unmitigated	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.1000e-004	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.1000e-004	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	97.5283	0.1460	0.0888	127.6499
Unmitigated	97.5283	0.1460	0.0888	127.6499

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	93.6783	5.5362	0.0000	232.0840
Unmitigated	93.6783	5.5362	0.0000	232.0840

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Fire Pump	1	1	50	175	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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Equipment Type	Number
----------------	--------

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Fire Pump - Diesel (175 - 300 HP)	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Total	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437

11.0 Vegetation

CalEEMod Output

Mitigated 2023

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.00	1000sqft	0.00	5,000.00	0
Refrigerated Warehouse-Rail	486.00	1000sqft	29.00	486,000.00	0
Parking Lot	346.00	Space	0.00	138,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	206	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 - CO2 Intensity factor updated to the most recent (2018) value.

Land Use - Square footage is approximate. Parking sqft based on CalEEMod default.

Construction Phase - Project-specific construction phases to conserve total days per phase

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project specific information

Trips and VMT - 184*2 trips for asphalt trucks and 2251*2=4502 trips for cement trucks

Demolition - According to RFI

Grading - 2,300 CYDS asphalt imported for paving phase later on. 28,140 cyds (2,251 trips) for cement.

Vehicle Trips - Assign all passenger car trips to office, all van trips to parking lot, all trucks to warehouse land use. Trip rates and lengths adjusted to match total VMT.

Vehicle Emission Factors - Emission Factor updated for 2010+ model year MHD and HHD trucks.

Area Coating -

Energy Use -

Water And Wastewater - Water treatment in this area does not include septic tank or lagoons.

Solid Waste -

Operational Off-Road Equipment -

Fleet Mix - Fleet mix for commute trips, vans, and truck trips were based on another similar warehouse project.

Stationary Sources - Emergency Generators and Fire Pumps - Project would include a fire pump on site.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	41.00
tblConstructionPhase	NumDays	440.00	28.00

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tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	45.00	14.00
tblConstructionPhase	NumDays	35.00	15.00
tblConstructionPhase	NumDays	20.00	15.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.15
tblFleetMix	LDA	0.61	0.50
tblFleetMix	LDA	0.61	0.20
tblFleetMix	LDA	0.61	0.00
tblFleetMix	LDT1	0.04	0.25
tblFleetMix	LDT1	0.04	0.10
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.25
tblFleetMix	LDT2	0.18	0.10
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.20
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	5.0110e-003	0.00
tblFleetMix	LHD2	5.0110e-003	0.20
tblFleetMix	LHD2	5.0110e-003	0.00
tblFleetMix	MCY	5.2800e-003	0.00
tblFleetMix	MCY	5.2800e-003	0.00
tblFleetMix	MCY	5.2800e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.20

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tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	7.2000e-004	0.00
tblFleetMix	MH	7.2000e-004	0.00
tblFleetMix	MH	7.2000e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.85
tblFleetMix	OBUS	2.1680e-003	0.00
tblFleetMix	OBUS	2.1680e-003	0.00
tblFleetMix	OBUS	2.1680e-003	0.00
tblFleetMix	SBUS	6.2900e-004	0.00
tblFleetMix	SBUS	6.2900e-004	0.00
tblFleetMix	SBUS	6.2900e-004	0.00
tblFleetMix	UBUS	1.5290e-003	0.00
tblFleetMix	UBUS	1.5290e-003	0.00
tblFleetMix	UBUS	1.5290e-003	0.00
tblGrading	MaterialImported	0.00	28,140.00
tblGrading	MaterialImported	0.00	2,300.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	11.16	29.00
tblLandUse	LotAcreage	3.11	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	UsageHours	8.00	4.80
tbOffRoadEquipment	UsageHours	7.00	1.20
tbOffRoadEquipment	UsageHours	8.00	6.40
tbOffRoadEquipment	UsageHours	8.00	2.90
tbOffRoadEquipment	UsageHours	8.00	5.50
tbOffRoadEquipment	UsageHours	8.00	5.50
tbOffRoadEquipment	UsageHours	8.00	5.70
tbOffRoadEquipment	UsageHours	8.00	6.40
tbOffRoadEquipment	UsageHours	8.00	6.40
tbOffRoadEquipment	UsageHours	8.00	6.40
tbOffRoadEquipment	UsageHours	8.00	4.80
tbOffRoadEquipment	UsageHours	8.00	3.40
tbOffRoadEquipment	UsageHours	8.00	4.80

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tblOffRoadEquipment	UsageHours	7.00	3.90
tblOffRoadEquipment	UsageHours	8.00	6.90
tblOffRoadEquipment	UsageHours	8.00	5.30
tblOffRoadEquipment	UsageHours	8.00	3.50
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	175.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	3,518.00	4,502.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblVehicleEF	HHD	0.34	0.31
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	1.61	86.23
tblVehicleEF	HHD	0.91	0.33
tblVehicleEF	HHD	3.69	7.6740e-003
tblVehicleEF	HHD	4,386.48	13,598.55
tblVehicleEF	HHD	1,557.95	1,291.67
tblVehicleEF	HHD	11.75	0.04
tblVehicleEF	HHD	13.99	68.96
tblVehicleEF	HHD	1.98	1.96
tblVehicleEF	HHD	19.39	2.24
tblVehicleEF	HHD	8.0650e-003	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1860e-003	0.02

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tblVehicleEF	HHD	1.0500e-004	0.00
tblVehicleEF	HHD	7.7170e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8320e-003	8.9370e-003
tblVehicleEF	HHD	5.9180e-003	0.02
tblVehicleEF	HHD	9.7000e-005	0.00
tblVehicleEF	HHD	9.8000e-005	3.0000e-006
tblVehicleEF	HHD	5.1360e-003	9.0000e-006
tblVehicleEF	HHD	0.42	5.78
tblVehicleEF	HHD	6.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	4.1700e-004	2.5000e-005
tblVehicleEF	HHD	0.09	5.0000e-006
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.7800e-004	0.00
tblVehicleEF	HHD	9.8000e-005	3.0000e-006
tblVehicleEF	HHD	5.1360e-003	9.0000e-006
tblVehicleEF	HHD	0.48	6.62
tblVehicleEF	HHD	6.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.15	0.05
tblVehicleEF	HHD	4.1700e-004	2.5000e-005
tblVehicleEF	HHD	0.10	5.0000e-006
tblVehicleEF	MHD	0.02	0.06
tblVehicleEF	MHD	4.5180e-003	1.0150e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.38	5.72

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tblVehicleEF	MHD	0.36	0.11
tblVehicleEF	MHD	5.92	1.14
tblVehicleEF	MHD	132.71	770.62
tblVehicleEF	MHD	1,189.79	1,038.10
tblVehicleEF	MHD	61.47	11.55
tblVehicleEF	MHD	0.36	3.47
tblVehicleEF	MHD	1.11	0.86
tblVehicleEF	MHD	10.17	1.54
tblVehicleEF	MHD	1.2300e-004	8.6300e-004
tblVehicleEF	MHD	3.1090e-003	3.8020e-003
tblVehicleEF	MHD	9.0500e-004	1.5300e-004
tblVehicleEF	MHD	1.1800e-004	8.2500e-004
tblVehicleEF	MHD	2.9680e-003	3.6260e-003
tblVehicleEF	MHD	8.3200e-004	1.4100e-004
tblVehicleEF	MHD	8.9400e-004	9.3700e-004
tblVehicleEF	MHD	0.04	1.9020e-003
tblVehicleEF	MHD	0.02	0.27
tblVehicleEF	MHD	4.6300e-004	3.9100e-004
tblVehicleEF	MHD	0.04	8.9250e-003
tblVehicleEF	MHD	0.02	4.8400e-003
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.2790e-003	7.3080e-003
tblVehicleEF	MHD	0.01	9.9700e-003
tblVehicleEF	MHD	7.1800e-004	1.1400e-004
tblVehicleEF	MHD	8.9400e-004	9.3700e-004
tblVehicleEF	MHD	0.04	1.9020e-003
tblVehicleEF	MHD	0.04	0.38

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tblVehicleEF	MHD	4.6300e-004	3.9100e-004
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.02	4.8400e-003
tblVehicleEF	MHD	0.38	0.06
tblVehicleTrips	CC_TL	7.30	8.10
tblVehicleTrips	CC_TL	7.30	10.00
tblVehicleTrips	CC_TL	7.30	30.00
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00

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tblVehicleTrips	ST_TR	2.46	29.44
tblVehicleTrips	ST_TR	0.00	1.46
tblVehicleTrips	ST_TR	1.68	0.69
tblVehicleTrips	SU_TR	1.05	12.57
tblVehicleTrips	SU_TR	0.00	0.62
tblVehicleTrips	SU_TR	1.68	0.62
tblVehicleTrips	WD_TR	11.03	132.00
tblVehicleTrips	WD_TR	0.00	6.55
tblVehicleTrips	WD_TR	1.68	0.69
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589

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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-4-2021	4-3-2021	1.5271	1.5271
2	4-4-2021	7-3-2021	0.4443	0.4443
3	7-4-2021	9-30-2021	0.5496	0.5496
		Highest	1.5271	1.5271

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	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	0.9731	9.2800	11.2533	0.0817	4.6589	0.0769	4.7358	1.3123	0.0730	1.3853	0.0000	7,643.1331	7,643.1331	0.1055	0.0000	7,645.7704
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.1768	9.3944	11.3585	0.0823	4.6589	0.0851	4.7441	1.3123	0.0812	1.3936	133.7556	8,262.2138	8,395.9694	5.8544	0.1040	8,573.3148

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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	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	0.9731	9.2800	11.2533	0.0817	4.6589	0.0769	4.7358	1.3123	0.0730	1.3853	0.0000	7,643.1331	7,643.1331	0.1055	0.0000	7,645.7704
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.1768	9.3944	11.3585	0.0823	4.6589	0.0851	4.7441	1.3123	0.0812	1.3936	133.7556	8,262.2138	8,395.9694	5.8544	0.1040	8,573.3148

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/4/2021	2/5/2021	5	25	
2	Site Preparation	Site Preparation	2/6/2021	2/26/2021	5	15	
3	Grading and Excavation	Grading	2/27/2021	3/18/2021	5	14	
4	Trenching and Foundation	Trenching	3/19/2021	5/27/2021	5	50	
5	Building Exterior	Building Construction	5/28/2021	7/23/2021	5	41	
6	Paving	Paving	7/24/2021	8/13/2021	5	15	
7	Building Interior and Arch Coating	Building Construction	8/14/2021	9/22/2021	5	28	

Acres of Grading (Site Preparation Phase): 7.59

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
Demolition	Concrete/Industrial Saws	4	4.80	81	0.73
Demolition	Excavators	1	6.40	158	0.38
Demolition	Rubber Tired Dozers	1	4.80	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.40	97	0.37
Site Preparation	Graders	3	2.70	187	0.41
Site Preparation	Rubber Tired Dozers	3	4.80	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	5.30	97	0.37
Grading and Excavation	Concrete/Industrial Saws	2	3.40	81	0.73
Grading and Excavation	Excavators	1	2.90	158	0.38

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Grading and Excavation	Graders	3	5.70	187	0.41
Grading and Excavation	Rubber Tired Dozers	2	3.40	247	0.40
Grading and Excavation	Scrapers	0	8.00	367	0.48
Grading and Excavation	Tractors/Loaders/Backhoes	2	6.90	97	0.37
Trenching and Foundation	Excavators	1	4.80	158	0.38
Trenching and Foundation	Tractors/Loaders/Backhoes	2	4.80	97	0.37
Building Exterior	Cranes	1	1.20	231	0.29
Building Exterior	Forklifts	2	5.50	89	0.20
Building Exterior	Generator Sets	4	5.50	84	0.74
Building Exterior	Tractors/Loaders/Backhoes	1	3.90	97	0.37
Building Exterior	Welders	3	3.50	46	0.45
Paving	Pavers	1	6.40	130	0.42
Paving	Paving Equipment	1	6.40	132	0.36
Paving	Rollers	1	6.40	80	0.38
Building Interior and Arch Coating	Aerial Lifts	2	8.00	63	0.31
Building Interior and Arch Coating	Air Compressors	2	8.00	78	0.48
Building Interior and Arch Coating	Cranes	0	7.00	231	0.29
Building Interior and Arch Coating	Forklifts	0	8.00	89	0.20
Building Interior and Arch Coating	Generator Sets	0	8.00	84	0.74
Building Interior and Arch Coating	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Interior and Arch Coating	Welders	0	8.00	46	0.45

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
Demolition	8	20.00	0.00	989.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	288.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading and Excavation	10	25.00	0.00	4,502.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Foundation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Exterior	11	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	368.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Interior and Arch Coating	4	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058

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3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

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					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057

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3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

3.3 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054

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3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

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					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053

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3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

3.4 Grading and Excavation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

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					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

3.5 Trenching and Foundation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

3.6 Building Exterior - 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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

3.7 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

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	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

3.8 Building Interior and Arch Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

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	0.9731	9.2800	11.2533	0.0817	4.6589	0.0769	4.7358	1.3123	0.0730	1.3853	0.0000	7,643.133 1	7,643.133 1	0.1055	0.0000	7,645.770 4
Unmitigated	0.9731	9.2800	11.2533	0.0817	4.6589	0.0769	4.7358	1.3123	0.0730	1.3853	0.0000	7,643.133 1	7,643.133 1	0.1055	0.0000	7,645.770 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	660.00	147.20	62.85	1,478,433	1,478,433
Parking Lot	2,266.30	505.16	214.52	6,266,614	6,266,614
Refrigerated Warehouse-Rail	335.34	335.34	301.32	3,608,842	3,608,842
Total	3,261.64	987.70	578.69	11,353,888	11,353,888

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
General Office Building	0.00	8.10	0.00	0.00	100.00	0.00	100	0	0
Parking Lot	0.00	10.00	0.00	0.00	100.00	0.00	100	0	0
Refrigerated Warehouse-Rail	0.00	30.00	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.200000	0.100000	0.100000	0.200000	0.200000	0.200000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Refrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.850000	0.150000	0.000000	0.000000	0.000000	0.000000	0.000000

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	455.6220	455.6220	0.0641	0.0133	461.1801
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	455.6220	455.6220	0.0641	0.0133	461.1801
NaturalGas Mitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708
NaturalGas Unmitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708

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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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

6.0 Area Detail

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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	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Unmitigated	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.1000e-004	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.1000e-004	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.6900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	97.5283	0.1460	0.0888	127.6499
Unmitigated	97.5283	0.1460	0.0888	127.6499

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	93.6783	5.5362	0.0000	232.0840
Unmitigated	93.6783	5.5362	0.0000	232.0840

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

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
Fire Pump	1	1	50	175	0.73	Diesel

Boilers

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

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Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Fire Pump - Diesel (175 - 300 HP)	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Total	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437

11.0 Vegetation

CalEEMod Output

Unmitigated 2024

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.00	1000sqft	0.00	5,000.00	0
Refrigerated Warehouse-Rail	486.00	1000sqft	29.00	486,000.00	0
Parking Lot	346.00	Space	0.00	138,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	206	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 - CO2 Intensity factor updated to the most recent (2018) value.

Land Use - Square footage is approximate. Parking sqft based on CalEEMod default.

Construction Phase - Project-specific construction phases to conserve total days per phase

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project-specific information

Off-road Equipment - Update to project specific information

Trips and VMT - 184*2 trips for asphalt trucks and 2251*2=4502 trips for cement trucks

Demolition - According to RFI

Grading - 2,300 CYDS asphalt imported for paving phase later on. 28,140 cyds (2,251 trips) for cement.

Vehicle Trips - Assign all passenger car trips to office, all van trips to parking lot, all trucks to warehouse land use. Trip rates and lengths adjusted to match total VMT.

Vehicle Emission Factors - Emission Factor updated for 2010+ model year MHD and HHD trucks.

Area Coating -

Energy Use -

Water And Wastewater - Water treatment in this area does not include septic tank or lagoons.

Solid Waste -

Operational Off-Road Equipment -

Fleet Mix - Fleet mix for commute trips, vans, and truck trips were based on another similar warehouse project.

Stationary Sources - Emergency Generators and Fire Pumps - Project would include a fire pump on site.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	41.00
tblConstructionPhase	NumDays	440.00	28.00

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tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	45.00	14.00
tblConstructionPhase	NumDays	35.00	15.00
tblConstructionPhase	NumDays	20.00	15.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.15
tblFleetMix	LDA	0.61	0.50
tblFleetMix	LDA	0.61	0.20
tblFleetMix	LDA	0.61	0.00
tblFleetMix	LDT1	0.04	0.25
tblFleetMix	LDT1	0.04	0.10
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.25
tblFleetMix	LDT2	0.18	0.10
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.20
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	5.0150e-003	0.00
tblFleetMix	LHD2	5.0150e-003	0.20
tblFleetMix	LHD2	5.0150e-003	0.00
tblFleetMix	MCY	5.2490e-003	0.00
tblFleetMix	MCY	5.2490e-003	0.00
tblFleetMix	MCY	5.2490e-003	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.20

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tblFleetMix	MDV	0.10	0.00
tblFleetMix	MH	7.0400e-004	0.00
tblFleetMix	MH	7.0400e-004	0.00
tblFleetMix	MH	7.0400e-004	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.85
tblFleetMix	OBUS	2.1770e-003	0.00
tblFleetMix	OBUS	2.1770e-003	0.00
tblFleetMix	OBUS	2.1770e-003	0.00
tblFleetMix	SBUS	6.3200e-004	0.00
tblFleetMix	SBUS	6.3200e-004	0.00
tblFleetMix	SBUS	6.3200e-004	0.00
tblFleetMix	UBUS	1.5140e-003	0.00
tblFleetMix	UBUS	1.5140e-003	0.00
tblFleetMix	UBUS	1.5140e-003	0.00
tblGrading	MaterialImported	0.00	28,140.00
tblGrading	MaterialImported	0.00	2,300.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	11.16	29.00
tblLandUse	LotAcreage	3.11	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
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	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	UsageHours	8.00	4.80
tbloffRoadEquipment	UsageHours	7.00	1.20
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	2.90
tbloffRoadEquipment	UsageHours	8.00	5.50
tbloffRoadEquipment	UsageHours	8.00	5.50
tbloffRoadEquipment	UsageHours	8.00	5.70
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	6.40
tbloffRoadEquipment	UsageHours	8.00	4.80
tbloffRoadEquipment	UsageHours	8.00	3.40
tbloffRoadEquipment	UsageHours	8.00	4.80

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tblOffRoadEquipment	UsageHours	7.00	3.90
tblOffRoadEquipment	UsageHours	8.00	6.90
tblOffRoadEquipment	UsageHours	8.00	5.30
tblOffRoadEquipment	UsageHours	8.00	3.50
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblTripsAndVMT	HaulingTripNumber	3,518.00	4,502.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblVehicleEF	HHD	0.31	0.44
tblVehicleEF	HHD	0.05	0.06
tblVehicleEF	HHD	0.07	0.08
tblVehicleEF	HHD	1.14	1.76
tblVehicleEF	HHD	0.93	1.00
tblVehicleEF	HHD	3.37	3.34
tblVehicleEF	HHD	4,575.85	4,836.52
tblVehicleEF	HHD	1,548.08	1,620.25
tblVehicleEF	HHD	11.68	11.46
tblVehicleEF	HHD	14.06	20.50
tblVehicleEF	HHD	1.85	3.45
tblVehicleEF	HHD	19.35	19.43
tblVehicleEF	HHD	6.1370e-003	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1410e-003	0.02
tblVehicleEF	HHD	1.0800e-004	1.0200e-004
tblVehicleEF	HHD	5.8720e-003	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8360e-003	8.8280e-003

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tblVehicleEF	HHD	5.8750e-003	0.01
tblVehicleEF	HHD	9.9000e-005	9.4000e-005
tblVehicleEF	HHD	2.1300e-004	2.2500e-004
tblVehicleEF	HHD	5.2760e-003	5.7050e-003
tblVehicleEF	HHD	0.38	0.58
tblVehicleEF	HHD	1.2300e-004	1.3000e-004
tblVehicleEF	HHD	0.09	0.13
tblVehicleEF	HHD	3.9600e-004	4.4300e-004
tblVehicleEF	HHD	0.08	0.09
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	1.7200e-004	1.7000e-004
tblVehicleEF	HHD	2.1300e-004	2.2500e-004
tblVehicleEF	HHD	5.2760e-003	5.7050e-003
tblVehicleEF	HHD	0.45	0.67
tblVehicleEF	HHD	1.2300e-004	1.3000e-004
tblVehicleEF	HHD	0.15	0.20
tblVehicleEF	HHD	3.9600e-004	4.4300e-004
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	0.36	0.51
tblVehicleEF	HHD	0.05	0.06
tblVehicleEF	HHD	0.08	0.09
tblVehicleEF	HHD	2.17	3.34
tblVehicleEF	HHD	0.91	0.98
tblVehicleEF	HHD	3.94	3.90
tblVehicleEF	HHD	3,964.88	4,191.27
tblVehicleEF	HHD	1,548.08	1,620.25

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tblVehicleEF	HHD	11.68	11.46
tblVehicleEF	HHD	13.02	18.98
tblVehicleEF	HHD	1.96	3.65
tblVehicleEF	HHD	19.39	19.47
tblVehicleEF	HHD	8.8570e-003	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1410e-003	0.02
tblVehicleEF	HHD	1.0800e-004	1.0200e-004
tblVehicleEF	HHD	8.4740e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8360e-003	8.8280e-003
tblVehicleEF	HHD	5.8750e-003	0.01
tblVehicleEF	HHD	9.9000e-005	9.4000e-005
tblVehicleEF	HHD	5.0000e-005	5.2000e-005
tblVehicleEF	HHD	5.0870e-003	5.5350e-003
tblVehicleEF	HHD	0.44	0.67
tblVehicleEF	HHD	0.09	0.13
tblVehicleEF	HHD	4.5800e-004	5.0700e-004
tblVehicleEF	HHD	0.09	0.11
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	1.8100e-004	1.7900e-004
tblVehicleEF	HHD	5.0000e-005	5.2000e-005
tblVehicleEF	HHD	5.0870e-003	5.5350e-003
tblVehicleEF	HHD	0.51	0.77
tblVehicleEF	HHD	0.15	0.20

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tblVehicleEF	HHD	4.5800e-004	5.0700e-004
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	LDA	3.3940e-003	4.1270e-003
tblVehicleEF	LDA	3.4390e-003	4.4980e-003
tblVehicleEF	LDA	0.55	0.63
tblVehicleEF	LDA	0.78	0.95
tblVehicleEF	LDA	241.77	263.47
tblVehicleEF	LDA	52.96	57.27
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	1.5950e-003	1.6570e-003
tblVehicleEF	LDA	2.2180e-003	2.2460e-003
tblVehicleEF	LDA	1.4690e-003	1.5270e-003
tblVehicleEF	LDA	2.0400e-003	2.0650e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	8.5080e-003	0.01
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	2.4210e-003	2.6390e-003
tblVehicleEF	LDA	5.4200e-004	5.8800e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.03	0.04

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tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	2.9600e-003	3.6070e-003
tblVehicleEF	LDA	4.6880e-003	6.1520e-003
tblVehicleEF	LDA	0.46	0.52
tblVehicleEF	LDA	1.15	1.40
tblVehicleEF	LDA	221.44	241.25
tblVehicleEF	LDA	52.96	57.27
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	1.5950e-003	1.6570e-003
tblVehicleEF	LDA	2.2180e-003	2.2460e-003
tblVehicleEF	LDA	1.4690e-003	1.5270e-003
tblVehicleEF	LDA	2.0400e-003	2.0650e-003
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	7.4330e-003	9.0860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	2.2170e-003	2.4150e-003
tblVehicleEF	LDA	5.4900e-004	5.9600e-004
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.09

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tblVehicleEF	LDT1	7.7060e-003	9.7860e-003
tblVehicleEF	LDT1	8.0030e-003	0.01
tblVehicleEF	LDT1	1.06	1.28
tblVehicleEF	LDT1	1.62	2.02
tblVehicleEF	LDT1	303.11	325.58
tblVehicleEF	LDT1	66.03	70.29
tblVehicleEF	LDT1	0.08	0.10
tblVehicleEF	LDT1	0.10	0.13
tblVehicleEF	LDT1	2.1030e-003	2.2780e-003
tblVehicleEF	LDT1	2.8260e-003	3.0330e-003
tblVehicleEF	LDT1	1.9360e-003	2.0980e-003
tblVehicleEF	LDT1	2.5980e-003	2.7890e-003
tblVehicleEF	LDT1	0.17	0.20
tblVehicleEF	LDT1	0.21	0.25
tblVehicleEF	LDT1	0.12	0.14
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.11	0.14
tblVehicleEF	LDT1	3.0430e-003	3.2710e-003
tblVehicleEF	LDT1	6.8800e-004	7.3800e-004
tblVehicleEF	LDT1	0.17	0.20
tblVehicleEF	LDT1	0.21	0.25
tblVehicleEF	LDT1	0.12	0.14
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.12	0.15
tblVehicleEF	LDT1	6.8360e-003	8.7360e-003

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tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.90	1.10
tblVehicleEF	LDT1	2.41	3.03
tblVehicleEF	LDT1	278.49	299.19
tblVehicleEF	LDT1	66.03	70.29
tblVehicleEF	LDT1	0.10	0.12
tblVehicleEF	LDT1	0.12	0.16
tblVehicleEF	LDT1	2.1030e-003	2.2780e-003
tblVehicleEF	LDT1	2.8260e-003	3.0330e-003
tblVehicleEF	LDT1	1.9360e-003	2.0980e-003
tblVehicleEF	LDT1	2.5980e-003	2.7890e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.24
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.19
tblVehicleEF	LDT1	0.15	0.19
tblVehicleEF	LDT1	2.7950e-003	3.0040e-003
tblVehicleEF	LDT1	7.0200e-004	7.5600e-004
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.24
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.17	0.19
tblVehicleEF	LDT1	0.16	0.21
tblVehicleEF	LDT2	5.1040e-003	6.0500e-003
tblVehicleEF	LDT2	4.8000e-003	6.0220e-003

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tblVehicleEF	LDT2	0.76	0.85
tblVehicleEF	LDT2	1.05	1.24
tblVehicleEF	LDT2	344.02	371.14
tblVehicleEF	LDT2	74.64	80.03
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	1.6510e-003	1.6350e-003
tblVehicleEF	LDT2	2.3140e-003	2.2540e-003
tblVehicleEF	LDT2	1.5190e-003	1.5040e-003
tblVehicleEF	LDT2	2.1270e-003	2.0730e-003
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	3.4460e-003	3.7180e-003
tblVehicleEF	LDT2	7.6400e-004	8.2100e-004
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	4.4620e-003	5.3000e-003
tblVehicleEF	LDT2	6.5420e-003	8.2280e-003
tblVehicleEF	LDT2	0.64	0.71

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tblVehicleEF	LDT2	1.54	1.83
tblVehicleEF	LDT2	315.72	340.57
tblVehicleEF	LDT2	74.64	80.03
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	1.6510e-003	1.6350e-003
tblVehicleEF	LDT2	2.3140e-003	2.2540e-003
tblVehicleEF	LDT2	1.5190e-003	1.5040e-003
tblVehicleEF	LDT2	2.1270e-003	2.0730e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	3.1620e-003	3.4110e-003
tblVehicleEF	LDT2	7.7200e-004	8.3100e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LHD1	5.1130e-003	5.6090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15

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tblVehicleEF	LHD1	0.96	1.13
tblVehicleEF	LHD1	2.24	2.55
tblVehicleEF	LHD1	8.98	8.98
tblVehicleEF	LHD1	679.88	696.09
tblVehicleEF	LHD1	31.45	33.08
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.96	1.15
tblVehicleEF	LHD1	0.88	0.97
tblVehicleEF	LHD1	8.5700e-004	8.6100e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.0500e-004	1.0070e-003
tblVehicleEF	LHD1	8.2000e-004	8.2400e-004
tblVehicleEF	LHD1	2.5360e-003	2.5070e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.3200e-004	9.2600e-004
tblVehicleEF	LHD1	5.6720e-003	6.1550e-003
tblVehicleEF	LHD1	0.11	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6620e-003	2.8490e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.31	0.32
tblVehicleEF	LHD1	0.23	0.26
tblVehicleEF	LHD1	6.6680e-003	6.8380e-003
tblVehicleEF	LHD1	3.5700e-004	3.7900e-004
tblVehicleEF	LHD1	5.6720e-003	6.1550e-003
tblVehicleEF	LHD1	0.11	0.12

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6620e-003	2.8490e-003
tblVehicleEF	LHD1	0.14	0.16
tblVehicleEF	LHD1	0.31	0.32
tblVehicleEF	LHD1	0.25	0.29
tblVehicleEF	LHD1	5.1130e-003	5.6090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	0.93	1.08
tblVehicleEF	LHD1	2.59	2.95
tblVehicleEF	LHD1	8.98	8.98
tblVehicleEF	LHD1	679.88	696.09
tblVehicleEF	LHD1	31.45	33.08
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	1.03	1.23
tblVehicleEF	LHD1	1.00	1.10
tblVehicleEF	LHD1	8.5700e-004	8.6100e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.0500e-004	1.0070e-003
tblVehicleEF	LHD1	8.2000e-004	8.2400e-004
tblVehicleEF	LHD1	2.5360e-003	2.5070e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.3200e-004	9.2600e-004
tblVehicleEF	LHD1	1.2920e-003	1.3760e-003
tblVehicleEF	LHD1	0.11	0.12

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	6.9500e-004	7.2300e-004
tblVehicleEF	LHD1	0.11	0.12
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD1	0.25	0.29
tblVehicleEF	LHD1	6.6680e-003	6.8380e-003
tblVehicleEF	LHD1	3.6300e-004	3.8600e-004
tblVehicleEF	LHD1	1.2920e-003	1.3760e-003
tblVehicleEF	LHD1	0.11	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	6.9500e-004	7.2300e-004
tblVehicleEF	LHD1	0.14	0.15
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD1	0.28	0.32
tblVehicleEF	LHD2	3.1970e-003	3.5690e-003
tblVehicleEF	LHD2	7.1090e-003	8.4380e-003
tblVehicleEF	LHD2	5.6370e-003	7.2390e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.53	0.59
tblVehicleEF	LHD2	1.02	1.17
tblVehicleEF	LHD2	13.93	14.03
tblVehicleEF	LHD2	699.69	712.64
tblVehicleEF	LHD2	23.61	24.58
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	0.56	0.78
tblVehicleEF	LHD2	0.39	0.46
tblVehicleEF	LHD2	1.2120e-003	1.2710e-003

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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	4.4000e-004
tblVehicleEF	LHD2	1.1590e-003	1.2160e-003
tblVehicleEF	LHD2	2.6950e-003	2.6860e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	4.0400e-004
tblVehicleEF	LHD2	1.6700e-003	2.0260e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.3500e-004	9.7700e-004
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.10
tblVehicleEF	LHD2	1.3600e-004	1.3700e-004
tblVehicleEF	LHD2	6.8030e-003	6.9320e-003
tblVehicleEF	LHD2	2.5400e-004	2.6700e-004
tblVehicleEF	LHD2	1.6700e-003	2.0260e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.3500e-004	9.7700e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.11
tblVehicleEF	LHD2	3.1970e-003	3.5690e-003
tblVehicleEF	LHD2	6.9490e-003	8.2040e-003
tblVehicleEF	LHD2	6.1970e-003	8.0090e-003

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tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.52	0.58
tblVehicleEF	LHD2	1.17	1.34
tblVehicleEF	LHD2	13.93	14.03
tblVehicleEF	LHD2	699.69	712.64
tblVehicleEF	LHD2	23.61	24.58
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	0.60	0.83
tblVehicleEF	LHD2	0.43	0.51
tblVehicleEF	LHD2	1.2120e-003	1.2710e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	4.4000e-004
tblVehicleEF	LHD2	1.1590e-003	1.2160e-003
tblVehicleEF	LHD2	2.6950e-003	2.6860e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	4.0400e-004
tblVehicleEF	LHD2	3.8500e-004	4.5700e-004
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.1800e-004	2.4900e-004
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.08	0.11
tblVehicleEF	LHD2	1.3600e-004	1.3700e-004
tblVehicleEF	LHD2	6.8020e-003	6.9320e-003
tblVehicleEF	LHD2	2.5700e-004	2.7000e-004

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tblVehicleEF	LHD2	3.8500e-004	4.5700e-004
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.1800e-004	2.4900e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.09	0.12
tblVehicleEF	MCY	0.44	0.43
tblVehicleEF	MCY	0.13	0.14
tblVehicleEF	MCY	17.84	18.37
tblVehicleEF	MCY	8.95	8.94
tblVehicleEF	MCY	170.05	169.25
tblVehicleEF	MCY	44.74	45.57
tblVehicleEF	MCY	1.01	1.01
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	2.0290e-003	1.9790e-003
tblVehicleEF	MCY	3.5220e-003	3.9070e-003
tblVehicleEF	MCY	1.8960e-003	1.8510e-003
tblVehicleEF	MCY	3.3110e-003	3.6840e-003
tblVehicleEF	MCY	2.32	2.34
tblVehicleEF	MCY	0.90	0.94
tblVehicleEF	MCY	1.32	1.35
tblVehicleEF	MCY	2.11	2.14
tblVehicleEF	MCY	0.54	0.58
tblVehicleEF	MCY	1.84	1.86
tblVehicleEF	MCY	2.0540e-003	2.0550e-003
tblVehicleEF	MCY	6.4800e-004	6.5600e-004

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tblVehicleEF	MCY	2.32	2.34
tblVehicleEF	MCY	0.90	0.94
tblVehicleEF	MCY	1.32	1.35
tblVehicleEF	MCY	2.63	2.65
tblVehicleEF	MCY	0.54	0.58
tblVehicleEF	MCY	2.00	2.02
tblVehicleEF	MCY	0.46	0.46
tblVehicleEF	MCY	0.18	0.19
tblVehicleEF	MCY	19.87	20.53
tblVehicleEF	MCY	11.64	11.58
tblVehicleEF	MCY	170.05	169.25
tblVehicleEF	MCY	44.74	45.57
tblVehicleEF	MCY	1.23	1.23
tblVehicleEF	MCY	0.34	0.34
tblVehicleEF	MCY	2.0290e-003	1.9790e-003
tblVehicleEF	MCY	3.5220e-003	3.9070e-003
tblVehicleEF	MCY	1.8960e-003	1.8510e-003
tblVehicleEF	MCY	3.3110e-003	3.6840e-003
tblVehicleEF	MCY	0.39	0.39
tblVehicleEF	MCY	0.82	0.86
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	2.27	2.31
tblVehicleEF	MCY	0.69	0.73
tblVehicleEF	MCY	2.52	2.56
tblVehicleEF	MCY	2.0920e-003	2.0950e-003
tblVehicleEF	MCY	7.1200e-004	7.2100e-004
tblVehicleEF	MCY	0.39	0.39

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tblVehicleEF	MCY	0.82	0.86
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	2.82	2.86
tblVehicleEF	MCY	0.69	0.73
tblVehicleEF	MCY	2.74	2.79
tblVehicleEF	MDV	9.3890e-003	0.01
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	1.14	1.35
tblVehicleEF	MDV	1.93	2.34
tblVehicleEF	MDV	461.13	493.32
tblVehicleEF	MDV	98.57	104.69
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.19	0.23
tblVehicleEF	MDV	1.7680e-003	1.8300e-003
tblVehicleEF	MDV	2.4430e-003	2.5220e-003
tblVehicleEF	MDV	1.6290e-003	1.6870e-003
tblVehicleEF	MDV	2.2460e-003	2.3200e-003
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.11	0.12
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.15	0.19
tblVehicleEF	MDV	4.6180e-003	4.9430e-003
tblVehicleEF	MDV	1.0190e-003	1.0880e-003
tblVehicleEF	MDV	0.13	0.14
tblVehicleEF	MDV	0.17	0.19

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tblVehicleEF	MDV	0.11	0.12
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.16	0.20
tblVehicleEF	MDV	8.2450e-003	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.96	1.14
tblVehicleEF	MDV	2.84	3.46
tblVehicleEF	MDV	424.15	453.68
tblVehicleEF	MDV	98.57	104.69
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.23	0.28
tblVehicleEF	MDV	1.7680e-003	1.8300e-003
tblVehicleEF	MDV	2.4430e-003	2.5220e-003
tblVehicleEF	MDV	1.6290e-003	1.6870e-003
tblVehicleEF	MDV	2.2460e-003	2.3200e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.16	0.18
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.20	0.26
tblVehicleEF	MDV	4.2460e-003	4.5430e-003
tblVehicleEF	MDV	1.0350e-003	1.1080e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.16	0.18
tblVehicleEF	MDV	0.03	0.03

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tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.28
tblVehicleEF	MH	0.02	0.04
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.68	2.51
tblVehicleEF	MH	4.69	5.53
tblVehicleEF	MH	1,207.03	1,217.52
tblVehicleEF	MH	58.43	59.35
tblVehicleEF	MH	1.13	1.30
tblVehicleEF	MH	0.72	0.80
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0680e-003	1.2090e-003
tblVehicleEF	MH	3.2200e-003	3.2170e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.8200e-004	1.1120e-003
tblVehicleEF	MH	1.65	2.02
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.53	0.65
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.28	0.32
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	6.9000e-004
tblVehicleEF	MH	1.65	2.02
tblVehicleEF	MH	0.07	0.08

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tblVehicleEF	MH	0.53	0.65
tblVehicleEF	MH	0.11	0.15
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.31	0.36
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.56	2.33
tblVehicleEF	MH	5.60	6.65
tblVehicleEF	MH	1,207.03	1,217.52
tblVehicleEF	MH	58.43	59.35
tblVehicleEF	MH	1.24	1.43
tblVehicleEF	MH	0.82	0.91
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0680e-003	1.2090e-003
tblVehicleEF	MH	3.2200e-003	3.2170e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.8200e-004	1.1120e-003
tblVehicleEF	MH	0.37	0.44
tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.14	0.17
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.32	0.37
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8200e-004	7.0900e-004
tblVehicleEF	MH	0.37	0.44

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tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.14	0.17
tblVehicleEF	MH	0.10	0.14
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.35	0.40
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	4.1450e-003	5.8860e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.26	0.27
tblVehicleEF	MHD	0.34	0.43
tblVehicleEF	MHD	4.96	5.95
tblVehicleEF	MHD	141.42	145.45
tblVehicleEF	MHD	1,186.25	1,201.31
tblVehicleEF	MHD	60.77	61.41
tblVehicleEF	MHD	0.37	0.56
tblVehicleEF	MHD	1.06	1.48
tblVehicleEF	MHD	10.13	10.24
tblVehicleEF	MHD	9.1000e-005	6.4500e-004
tblVehicleEF	MHD	3.1100e-003	6.5420e-003
tblVehicleEF	MHD	8.7400e-004	9.3800e-004
tblVehicleEF	MHD	8.7000e-005	6.1700e-004
tblVehicleEF	MHD	2.9690e-003	6.2530e-003
tblVehicleEF	MHD	8.0400e-004	8.6200e-004
tblVehicleEF	MHD	1.9020e-003	2.2570e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	9.3800e-004	1.0760e-003

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tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.30	0.36
tblVehicleEF	MHD	1.3600e-003	1.3990e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	7.1800e-004
tblVehicleEF	MHD	1.9020e-003	2.2570e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	9.3800e-004	1.0760e-003
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.39
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.0050e-003	5.6730e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.33	0.41
tblVehicleEF	MHD	5.80	6.96
tblVehicleEF	MHD	122.60	126.09
tblVehicleEF	MHD	1,186.25	1,201.31
tblVehicleEF	MHD	60.77	61.41
tblVehicleEF	MHD	0.34	0.52
tblVehicleEF	MHD	1.12	1.57
tblVehicleEF	MHD	10.23	10.35
tblVehicleEF	MHD	1.3200e-004	9.3100e-004
tblVehicleEF	MHD	3.1100e-003	6.5420e-003

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tblVehicleEF	MHD	8.7400e-004	9.3800e-004
tblVehicleEF	MHD	1.2600e-004	8.9100e-004
tblVehicleEF	MHD	2.9690e-003	6.2530e-003
tblVehicleEF	MHD	8.0400e-004	8.6200e-004
tblVehicleEF	MHD	4.1800e-004	4.8000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	2.2900e-004	2.5000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.34	0.40
tblVehicleEF	MHD	1.1840e-003	1.2170e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0900e-004	7.3500e-004
tblVehicleEF	MHD	4.1800e-004	4.8000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	2.2900e-004	2.5000e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.37	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.9890e-003	8.3570e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.26
tblVehicleEF	OBUS	0.42	0.53
tblVehicleEF	OBUS	4.39	4.74

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tblVehicleEF	OBUS	105.19	115.66
tblVehicleEF	OBUS	1,290.88	1,307.90
tblVehicleEF	OBUS	66.64	66.90
tblVehicleEF	OBUS	0.22	0.52
tblVehicleEF	OBUS	0.87	1.65
tblVehicleEF	OBUS	2.63	2.77
tblVehicleEF	OBUS	1.6000e-005	9.4000e-005
tblVehicleEF	OBUS	2.7550e-003	7.6290e-003
tblVehicleEF	OBUS	8.3600e-004	7.7800e-004
tblVehicleEF	OBUS	1.6000e-005	9.0000e-005
tblVehicleEF	OBUS	2.6160e-003	7.2800e-003
tblVehicleEF	OBUS	7.6900e-004	7.1600e-004
tblVehicleEF	OBUS	2.5990e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	1.0760e-003	1.0690e-003
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.30
tblVehicleEF	OBUS	1.0150e-003	1.1150e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4300e-004	7.5200e-004
tblVehicleEF	OBUS	2.5990e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.0760e-003	1.0690e-003
tblVehicleEF	OBUS	0.05	0.09

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tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.31	0.33
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.7270e-003	8.0220e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.30
tblVehicleEF	OBUS	0.41	0.52
tblVehicleEF	OBUS	5.20	5.61
tblVehicleEF	OBUS	93.33	102.41
tblVehicleEF	OBUS	1,290.88	1,307.90
tblVehicleEF	OBUS	66.64	66.90
tblVehicleEF	OBUS	0.21	0.48
tblVehicleEF	OBUS	0.92	1.76
tblVehicleEF	OBUS	2.73	2.87
tblVehicleEF	OBUS	2.4000e-005	1.3600e-004
tblVehicleEF	OBUS	2.7550e-003	7.6290e-003
tblVehicleEF	OBUS	8.3600e-004	7.7800e-004
tblVehicleEF	OBUS	2.3000e-005	1.3000e-004
tblVehicleEF	OBUS	2.6160e-003	7.2800e-003
tblVehicleEF	OBUS	7.6900e-004	7.1600e-004
tblVehicleEF	OBUS	6.3500e-004	6.2900e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	2.9600e-004	2.8900e-004
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.32	0.34

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tblVehicleEF	OBUS	9.0200e-004	9.8900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.5700e-004	7.6700e-004
tblVehicleEF	OBUS	6.3500e-004	6.2900e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	2.9600e-004	2.8900e-004
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.35	0.37
tblVehicleEF	SBUS	0.82	0.84
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	8.15	7.98
tblVehicleEF	SBUS	0.97	1.16
tblVehicleEF	SBUS	6.83	7.41
tblVehicleEF	SBUS	1,145.29	1,172.47
tblVehicleEF	SBUS	1,045.14	1,059.05
tblVehicleEF	SBUS	56.99	55.12
tblVehicleEF	SBUS	8.09	9.41
tblVehicleEF	SBUS	3.23	3.88
tblVehicleEF	SBUS	11.83	12.26
tblVehicleEF	SBUS	5.8930e-003	7.7810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	9.2200e-004	8.8200e-004
tblVehicleEF	SBUS	5.6380e-003	7.4440e-003

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tblVehicleEF	SBUS	2.6210e-003	2.6340e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.4800e-004	8.1100e-004
tblVehicleEF	SBUS	7.3720e-003	7.9710e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.98	0.96
tblVehicleEF	SBUS	3.0660e-003	3.1320e-003
tblVehicleEF	SBUS	0.10	0.12
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.39	0.42
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8900e-004	6.8000e-004
tblVehicleEF	SBUS	7.3720e-003	7.9710e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	1.41	1.39
tblVehicleEF	SBUS	3.0660e-003	3.1320e-003
tblVehicleEF	SBUS	0.13	0.15
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.43	0.46
tblVehicleEF	SBUS	0.82	0.84
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.09	0.10
tblVehicleEF	SBUS	8.39	8.25
tblVehicleEF	SBUS	0.93	1.11
tblVehicleEF	SBUS	11.78	12.78
tblVehicleEF	SBUS	1,029.90	1,052.22

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tblVehicleEF	SBUS	1,045.14	1,059.05
tblVehicleEF	SBUS	56.99	55.12
tblVehicleEF	SBUS	7.49	8.72
tblVehicleEF	SBUS	3.44	4.13
tblVehicleEF	SBUS	11.92	12.36
tblVehicleEF	SBUS	8.5050e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	9.2200e-004	8.8200e-004
tblVehicleEF	SBUS	8.1370e-003	0.01
tblVehicleEF	SBUS	2.6210e-003	2.6340e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.4800e-004	8.1100e-004
tblVehicleEF	SBUS	1.8480e-003	1.9250e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.98	0.97
tblVehicleEF	SBUS	8.6200e-004	8.4800e-004
tblVehicleEF	SBUS	0.10	0.12
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.53	0.57
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.7100e-004	7.7000e-004
tblVehicleEF	SBUS	1.8480e-003	1.9250e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	1.42	1.40
tblVehicleEF	SBUS	8.6200e-004	8.4800e-004

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tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.58	0.62
tblVehicleEF	UBUS	0.23	0.28
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	4.22	5.24
tblVehicleEF	UBUS	5.86	6.48
tblVehicleEF	UBUS	2,047.05	2,092.55
tblVehicleEF	UBUS	107.16	99.16
tblVehicleEF	UBUS	8.29	10.01
tblVehicleEF	UBUS	14.25	14.84
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.19	0.23
tblVehicleEF	UBUS	0.25	0.26
tblVehicleEF	UBUS	0.18	0.22
tblVehicleEF	UBUS	4.3060e-003	5.5790e-003
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	2.1420e-003	2.6370e-003
tblVehicleEF	UBUS	0.46	0.67
tblVehicleEF	UBUS	6.4650e-003	7.6840e-003
tblVehicleEF	UBUS	0.49	0.50
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.1780e-003	1.1080e-003
tblVehicleEF	UBUS	4.3060e-003	5.5790e-003
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	2.1420e-003	2.6370e-003
tblVehicleEF	UBUS	0.73	1.00

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tblVehicleEF	UBUS	6.4650e-003	7.6840e-003
tblVehicleEF	UBUS	0.54	0.54
tblVehicleEF	UBUS	0.23	0.27
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	4.18	5.14
tblVehicleEF	UBUS	8.52	9.75
tblVehicleEF	UBUS	2,047.05	2,092.55
tblVehicleEF	UBUS	107.16	99.16
tblVehicleEF	UBUS	8.77	10.61
tblVehicleEF	UBUS	14.37	14.96
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.19	0.23
tblVehicleEF	UBUS	0.25	0.26
tblVehicleEF	UBUS	0.18	0.22
tblVehicleEF	UBUS	1.0550e-003	1.2330e-003
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	5.6400e-004	5.7300e-004
tblVehicleEF	UBUS	0.45	0.65
tblVehicleEF	UBUS	8.8970e-003	0.01
tblVehicleEF	UBUS	0.61	0.64
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.2240e-003	1.1640e-003
tblVehicleEF	UBUS	1.0550e-003	1.2330e-003
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	5.6400e-004	5.7300e-004
tblVehicleEF	UBUS	0.72	0.98
tblVehicleEF	UBUS	8.8970e-003	0.01

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tblVehicleEF	UBUS	0.67	0.70
tblVehicleTrips	CC_TL	7.30	8.10
tblVehicleTrips	CC_TL	7.30	10.00
tblVehicleTrips	CC_TL	7.30	30.00
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	29.44
tblVehicleTrips	ST_TR	0.00	1.46
tblVehicleTrips	ST_TR	1.68	0.69

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tblVehicleTrips	SU_TR	1.05	12.57
tblVehicleTrips	SU_TR	0.00	0.62
tblVehicleTrips	SU_TR	1.68	0.62
tblVehicleTrips	WD_TR	11.03	132.00
tblVehicleTrips	WD_TR	0.00	6.55
tblVehicleTrips	WD_TR	1.68	0.69
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2805	538.2805	0.0471	0.0000	539.4589

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					
2021	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587
Maximum	0.1864	2.3414	1.4954	5.8000e-003	0.3922	0.0610	0.4532	0.1242	0.0579	0.1821	0.0000	538.2803	538.2803	0.0471	0.0000	539.4587

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-4-2021	4-3-2021	1.5271	1.5271
2	4-4-2021	7-3-2021	0.4443	0.4443
3	7-4-2021	9-30-2021	0.5496	0.5496
		Highest	1.5271	1.5271

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	2.1862	7.0000e-005	7.6800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	0.9919	9.5969	10.0239	0.0847	4.6585	0.0625	4.7211	1.3122	0.0593	1.3715	0.0000	7,927.8160	7,927.8160	0.1203	0.0000	7,930.8224
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.1956	9.7114	10.1291	0.0853	4.6585	0.0708	4.7293	1.3122	0.0676	1.3798	133.7556	8,546.8967	8,680.6523	5.8691	0.1040	8,858.3668

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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	2.1862	7.0000e-005	7.6800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	558.2828	558.2828	0.0661	0.0152	564.4510
Mobile	0.9919	9.5969	10.0239	0.0847	4.6585	0.0625	4.7211	1.3122	0.0593	1.3715	0.0000	7,927.8160	7,927.8160	0.1203	0.0000	7,930.8224
Stationary	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Waste						0.0000	0.0000		0.0000	0.0000	93.6783	0.0000	93.6783	5.5362	0.0000	232.0840
Water						0.0000	0.0000		0.0000	0.0000	40.0773	57.4510	97.5283	0.1460	0.0888	127.6499
Total	3.1956	9.7114	10.1291	0.0853	4.6585	0.0708	4.7293	1.3122	0.0676	1.3798	133.7556	8,546.8967	8,680.6523	5.8691	0.1040	8,858.3668

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/4/2021	2/5/2021	5	25	
2	Site Preparation	Site Preparation	2/6/2021	2/26/2021	5	15	
3	Grading and Excavation	Grading	2/27/2021	3/18/2021	5	14	
4	Trenching and Foundation	Trenching	3/19/2021	5/27/2021	5	50	
5	Building Exterior	Building Construction	5/28/2021	7/23/2021	5	41	
6	Paving	Paving	7/24/2021	8/13/2021	5	15	
7	Building Interior and Arch Coating	Building Construction	8/14/2021	9/22/2021	5	28	

Acres of Grading (Site Preparation Phase): 7.59

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
Demolition	Concrete/Industrial Saws	4	4.80	81	0.73
Demolition	Excavators	1	6.40	158	0.38
Demolition	Rubber Tired Dozers	1	4.80	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.40	97	0.37
Site Preparation	Graders	3	2.70	187	0.41
Site Preparation	Rubber Tired Dozers	3	4.80	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	5.30	97	0.37
Grading and Excavation	Concrete/Industrial Saws	2	3.40	81	0.73
Grading and Excavation	Excavators	1	2.90	158	0.38

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Grading and Excavation	Graders	3	5.70	187	0.41
Grading and Excavation	Rubber Tired Dozers	2	3.40	247	0.40
Grading and Excavation	Scrapers	0	8.00	367	0.48
Grading and Excavation	Tractors/Loaders/Backhoes	2	6.90	97	0.37
Trenching and Foundation	Excavators	1	4.80	158	0.38
Trenching and Foundation	Tractors/Loaders/Backhoes	2	4.80	97	0.37
Building Exterior	Cranes	1	1.20	231	0.29
Building Exterior	Forklifts	2	5.50	89	0.20
Building Exterior	Generator Sets	4	5.50	84	0.74
Building Exterior	Tractors/Loaders/Backhoes	1	3.90	97	0.37
Building Exterior	Welders	3	3.50	46	0.45
Paving	Pavers	1	6.40	130	0.42
Paving	Paving Equipment	1	6.40	132	0.36
Paving	Rollers	1	6.40	80	0.38
Building Interior and Arch Coating	Aerial Lifts	2	8.00	63	0.31
Building Interior and Arch Coating	Air Compressors	2	8.00	78	0.48
Building Interior and Arch Coating	Cranes	0	7.00	231	0.29
Building Interior and Arch Coating	Forklifts	0	8.00	89	0.20
Building Interior and Arch Coating	Generator Sets	0	8.00	84	0.74
Building Interior and Arch Coating	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Interior and Arch Coating	Welders	0	8.00	46	0.45

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
Demolition	8	20.00	0.00	989.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	288.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading and Excavation	10	25.00	0.00	4,502.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Foundation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Exterior	11	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	368.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Interior and Arch Coating	4	264.00	103.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9058

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3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

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					0.1070	0.0000	0.1070	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2329	0.2184	3.7000e-004		0.0125	0.0125		0.0119	0.0119	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057
Total	0.0254	0.2329	0.2184	3.7000e-004	0.1070	0.0125	0.1195	0.0162	0.0119	0.0281	0.0000	31.7560	31.7560	5.9900e-003	0.0000	31.9057

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3.2 Demolition - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1322	0.0288	3.8000e-004	8.3800e-003	4.1000e-004	8.8000e-003	2.3100e-003	3.9000e-004	2.7000e-003	0.0000	37.2375	37.2375	1.6900e-003	0.0000	37.2797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	5.7200e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6414	1.6414	4.0000e-005	0.0000	1.6423
Total	4.6500e-003	0.1328	0.0345	4.0000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.0000e-004	3.2400e-003	0.0000	38.8788	38.8788	1.7300e-003	0.0000	38.9220

3.3 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2658	17.2658	5.5800e-003	0.0000	17.4054

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3.3 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

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					0.0855	0.0000	0.0855	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2119	0.0904	2.0000e-004		9.7200e-003	9.7200e-003		8.9500e-003	8.9500e-003	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053
Total	0.0194	0.2119	0.0904	2.0000e-004	0.0855	9.7200e-003	0.0952	0.0451	8.9500e-003	0.0541	0.0000	17.2657	17.2657	5.5800e-003	0.0000	17.4053

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3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0385	8.3900e-003	1.1000e-004	2.4400e-003	1.2000e-004	2.5600e-003	6.7000e-004	1.2000e-004	7.9000e-004	0.0000	10.8437	10.8437	4.9000e-004	0.0000	10.8560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	1.5900e-003	0.0388	0.0118	1.2000e-004	3.6300e-003	1.3000e-004	3.7600e-003	9.9000e-004	1.3000e-004	1.1100e-003	0.0000	11.8285	11.8285	5.1000e-004	0.0000	11.8414

3.4 Grading and Excavation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9697

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

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					0.0454	0.0000	0.0454	0.0208	0.0000	0.0208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.2004	0.1079	2.4000e-004		8.6200e-003	8.6200e-003		8.0100e-003	8.0100e-003	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696
Total	0.0181	0.2004	0.1079	2.4000e-004	0.0454	8.6200e-003	0.0540	0.0208	8.0100e-003	0.0288	0.0000	20.8225	20.8225	5.8900e-003	0.0000	20.9696

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3.4 Grading and Excavation - 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	0.0177	0.6020	0.1312	1.7500e-003	0.0382	1.8800e-003	0.0400	0.0105	1.8000e-003	0.0123	0.0000	169.5077	169.5077	7.6900e-003	0.0000	169.7000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.0000e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1490	1.1490	3.0000e-005	0.0000	1.1496
Total	0.0182	0.6024	0.1352	1.7600e-003	0.0396	1.8900e-003	0.0414	0.0109	1.8100e-003	0.0127	0.0000	170.6567	170.6567	7.7200e-003	0.0000	170.8496

3.5 Trenching and Foundation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9957	14.9957	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169
Total	9.0600e-003	0.0892	0.1169	1.7000e-004		4.9200e-003	4.9200e-003		4.5300e-003	4.5300e-003	0.0000	14.9956	14.9956	4.8500e-003	0.0000	15.1169

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3.5 Trenching and Foundation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138
Total	6.2000e-004	4.3000e-004	4.5800e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3131	1.3131	3.0000e-005	0.0000	1.3138

3.6 Building Exterior - 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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9999	44.9999	4.9000e-003	0.0000	45.1223

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

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	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222
Total	0.0351	0.2862	0.3156	5.3000e-004		0.0155	0.0155		0.0152	0.0152	0.0000	44.9998	44.9998	4.9000e-003	0.0000	45.1222

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3.6 Building Exterior - 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	6.8900e-003	0.2170	0.0578	5.7000e-004	0.0139	4.8000e-004	0.0144	4.0200e-003	4.6000e-004	4.4800e-003	0.0000	54.6941	54.6941	2.3800e-003	0.0000	54.7536
Worker	0.0167	0.0115	0.1238	3.9000e-004	0.0429	2.7000e-004	0.0432	0.0114	2.5000e-004	0.0117	0.0000	35.5320	35.5320	8.1000e-004	0.0000	35.5523
Total	0.0236	0.2285	0.1816	9.6000e-004	0.0568	7.5000e-004	0.0576	0.0154	7.1000e-004	0.0161	0.0000	90.2261	90.2261	3.1900e-003	0.0000	90.3059

3.7 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

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	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7700e-003	0.0388	0.0440	7.0000e-005		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	6.0070	6.0070	1.9400e-003	0.0000	6.0556

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3.7 Paving - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0492	0.0107	1.4000e-004	3.1200e-003	1.5000e-004	3.2700e-003	8.6000e-004	1.5000e-004	1.0000e-003	0.0000	13.8558	13.8558	6.3000e-004	0.0000	13.8715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3700e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3939	0.3939	1.0000e-005	0.0000	0.3942
Total	1.6200e-003	0.0493	0.0121	1.4000e-004	3.6000e-003	1.5000e-004	3.7500e-003	9.9000e-004	1.5000e-004	1.1300e-003	0.0000	14.2497	14.2497	6.4000e-004	0.0000	14.2657

3.8 Building Interior and Arch Coating - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126
Total	9.2200e-003	0.0738	0.0985	1.6000e-004		3.8300e-003	3.8300e-003		3.8100e-003	3.8100e-003	0.0000	13.6629	13.6629	1.9900e-003	0.0000	13.7126

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3.8 Building Interior and Arch Coating - 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	4.7000e-003	0.1482	0.0394	3.9000e-004	9.4900e-003	3.3000e-004	9.8200e-003	2.7400e-003	3.1000e-004	3.0600e-003	0.0000	37.3520	37.3520	1.6300e-003	0.0000	37.3927
Worker	0.0114	7.8800e-003	0.0846	2.7000e-004	0.0293	1.8000e-004	0.0295	7.8000e-003	1.7000e-004	7.9700e-003	0.0000	24.2658	24.2658	5.5000e-004	0.0000	24.2796
Total	0.0161	0.1561	0.1240	6.6000e-004	0.0388	5.1000e-004	0.0393	0.0105	4.8000e-004	0.0110	0.0000	61.6178	61.6178	2.1800e-003	0.0000	61.6723

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	0.9919	9.5969	10.0239	0.0847	4.6585	0.0625	4.7211	1.3122	0.0593	1.3715	0.0000	7,927.8160	7,927.8160	0.1203	0.0000	7,930.8224
Unmitigated	0.9919	9.5969	10.0239	0.0847	4.6585	0.0625	4.7211	1.3122	0.0593	1.3715	0.0000	7,927.8160	7,927.8160	0.1203	0.0000	7,930.8224

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	660.00	147.20	62.85	1,478,433	1,478,433
Parking Lot	2,266.30	505.16	214.52	6,266,614	6,266,614
Refrigerated Warehouse-Rail	335.34	335.34	301.32	3,608,842	3,608,842
Total	3,261.64	987.70	578.69	11,353,888	11,353,888

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
General Office Building	0.00	8.10	0.00	0.00	100.00	0.00	100	0	0
Parking Lot	0.00	10.00	0.00	0.00	100.00	0.00	100	0	0
Refrigerated Warehouse-Rail	0.00	30.00	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.200000	0.100000	0.100000	0.200000	0.200000	0.200000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Refrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.850000	0.150000	0.000000	0.000000	0.000000	0.000000	0.000000

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	455.6220	455.6220	0.0641	0.0133	461.1801
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	455.6220	455.6220	0.0641	0.0133	461.1801
NaturalGas Mitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708
NaturalGas Unmitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.6608	102.6608	1.9700e-003	1.8800e-003	103.2708

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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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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					
General Office Building	81850	4.4000e-004	4.0100e-003	3.3700e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.3678	4.3678	8.0000e-005	8.0000e-005	4.3938
Parking Lot	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
Refrigerated Warehouse-Rail	1.84194e+006	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003	0.0000	98.2929	98.2929	1.8800e-003	1.8000e-003	98.8770
Total		0.0104	0.0943	0.0792	5.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6608	102.6608	1.9600e-003	1.8800e-003	103.2708

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	89150	8.3302	1.1700e-003	2.4000e-004	8.4318
Parking Lot	48440	4.5262	6.4000e-004	1.3000e-004	4.5815
Refrigerated Warehouse-Rail	4.7385e+006	442.7656	0.0623	0.0129	448.1669
Total		455.6220	0.0641	0.0133	461.1801

6.0 Area Detail

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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	2.1862	7.0000e-005	7.6800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Unmitigated	2.1862	7.0000e-005	7.6800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.1000e-004	7.0000e-005	7.6800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.6800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

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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	0.2589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.1000e-004	7.0000e-005	7.6800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159
Total	2.1862	7.0000e-005	7.6800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0150	0.0150	4.0000e-005	0.0000	0.0159

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	97.5283	0.1460	0.0888	127.6499
Unmitigated	97.5283	0.1460	0.0888	127.6499

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	0.9419	1.1700e-003	7.0000e-004	1.1803
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	112.388 / 0	96.5864	0.1449	0.0881	126.4696
Total		97.5283	0.1460	0.0888	127.6499

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	93.6783	5.5362	0.0000	232.0840
Unmitigated	93.6783	5.5362	0.0000	232.0840

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	456.84	92.7344	5.4805	0.0000	229.7455
Total		93.6783	5.5362	0.0000	232.0840

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
Fire Pump	1	1	50	175	0.73	Diesel

Boilers

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

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Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/Mitigated**

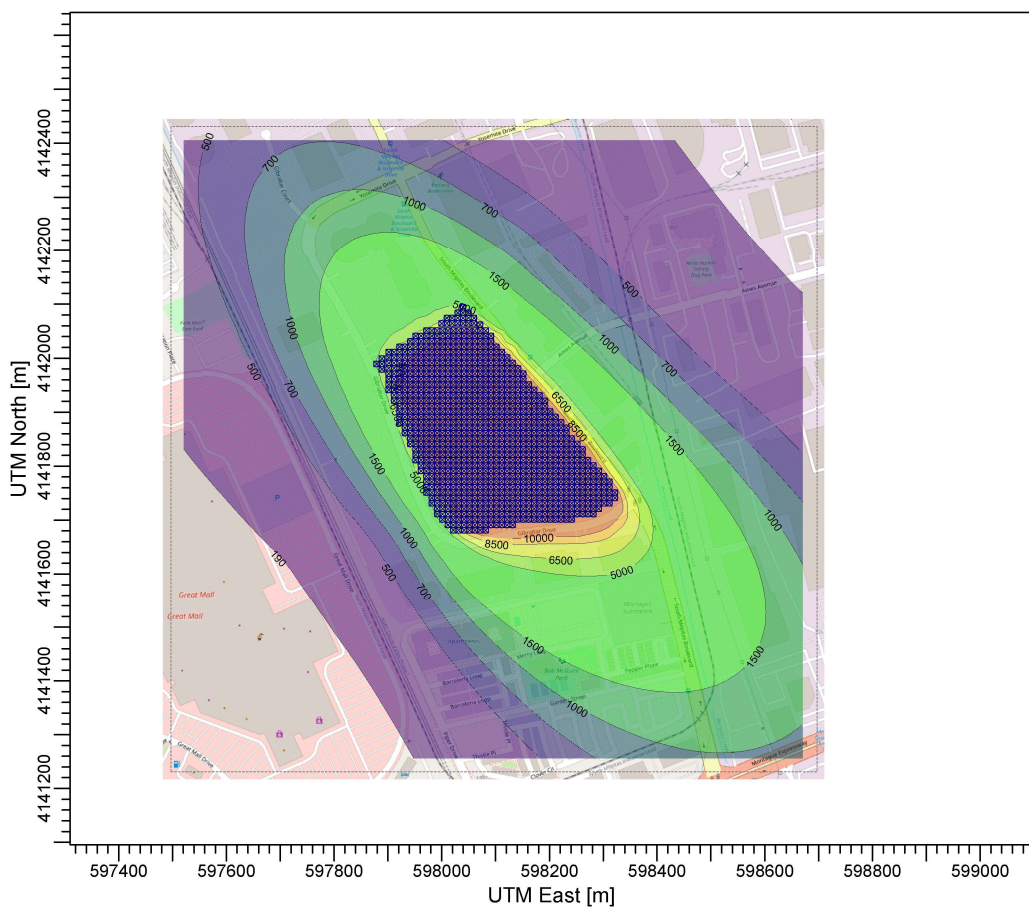
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Fire Pump - Diesel (175 - 300 HP)	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437
Total	7.1800e-003	0.0201	0.0183	3.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3320	3.3320	4.7000e-004	0.0000	3.3437

11.0 Vegetation

Construction Emissions AERMOD Result

PROJECT TITLE:

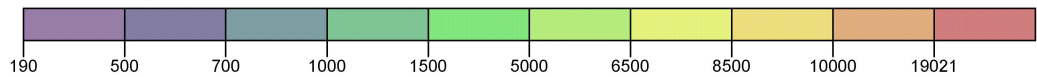
1000 Gibraltar Construction Emissions Dispersion Contours



PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL

ug/m³

Max: 19021 [ug/m³] at (598095.44, 4141831.00)



COMMENTS:

SOURCES:

1064

COMPANY NAME:

RECEPTORS:

2209

MODELER:

OUTPUT TYPE:

Concentration

SCALE:

1:11,238

0

0.4 km

MAX:

19021 ug/m³

DATE:

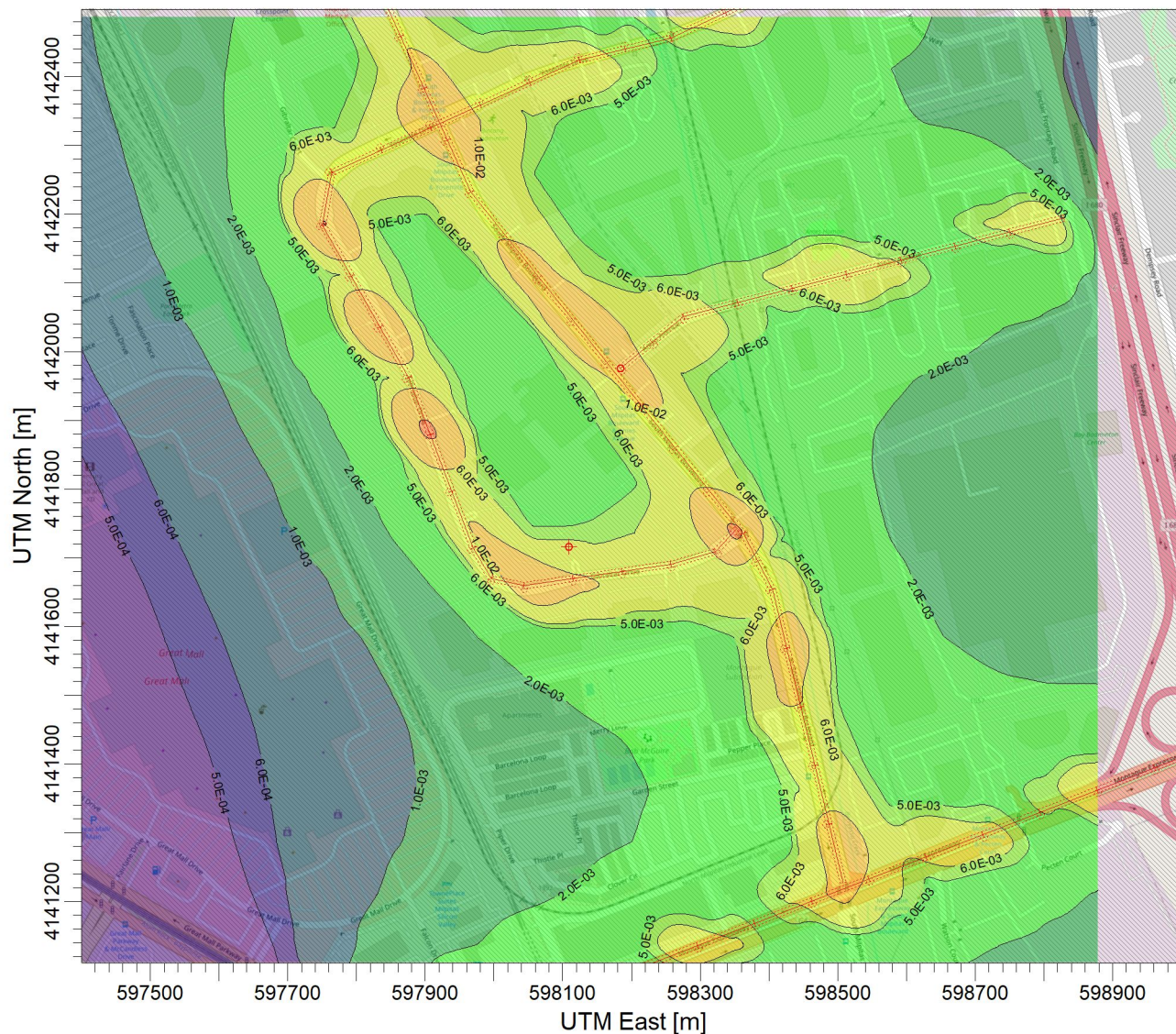
10/30/2020

PROJECT NO.:

Operational Emissions AERMOD Result

PROJECT TITLE:

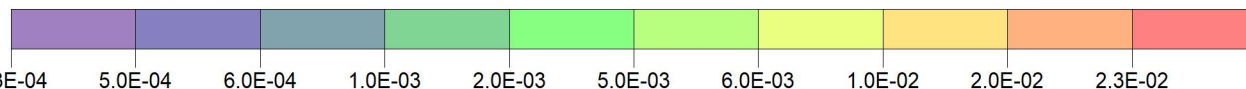
1000 Gibraltar Operational Emissions Dispersion Contours



PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL

ug/m³

Max: 2.3E-02 [ug/m³] at (597903.31, 4141886.75)



COMMENTS:

SOURCES:

COMPANY NAME:

5

RECEPTORS:

MODELER:

441

OUTPUT TYPE:

SCALE:

1:10,090

Concentration

0  0.3 km

MAX:

DATE:

PROJECT NO.:

2.3E-02 ug/m³

10/30/2020

Health Risk Assessment Parameters and Results

Summary of ISCST3 Model Parameters, Assumptions, and Results for DPM and PM_{2.5} Emissions during Construction

ISCST3 Model Parameters and Assumptions			
Source Type	Units	Value	Notes
Volume Source: Off-Road Equipment Exhaust			
Hours/Work Day	hours/day	12.00	Assuming construction 7AM-7PM on weekdays and weekends according to
DPM Emission Rate	gram/second	0.006386	Exhaust PM ₁₀ from off-road equipment
Number of Sources	count	1064	SMAQMD, 2015
Emission Rate/Source	gram/second	0.000006	Scaling factor is (1/Emission Rate) to convert result from ISCST3
Release Height	meters	5.0	SMAQMD, 2015
Length of Side	meters	10.0	SMAQMD, 2015
Initial Lateral Dimension	meters	2.3	ISCST3 Calculator
Initial Vertical Dimension	meters	1.0	SMAQMD, 2015
ISCST3 Model Results			
Sensitive Receptor	Pollutant	Annual Average Concentration	Notes
MEIR	DPM (µg/m ³)	0.0090	Nearest residential receptor under the unmitigated scenario
	PM _{2.5} (µg/m ³)	0.0086	Nearest residential receptor under the unmitigated scenario

Notes:

DPM = diesel particulate matter

PM₁₀ = particulate matter with aerodynamic resistance diameters equal to or less than 10 microns

PM_{2.5} = particulate matter with aerodynamic resistance diameters equal to or less than 2.5 microns

µg/m³ = micrograms per cubic meter

Sacramento Metropolitan Air Quality Management District (SMAQMD), 2015. *Guide to Air Quality Assessment in Sacramento County*. June.

Summary of Health Risk Assessment at MEIR for DPM Emissions during Construction

Health Risk Assessment Parameters and Results				
DPM Emissions without Mitigation Measures				
Inhalation Cancer Risk Assessment for DPM	Units	Age Group		Notes
		3rd Trimester	0-2 Years	
DPM Concentration (C)	$\mu\text{g}/\text{m}^3$	0.009	0.009	ISCST3 Annual Average
Daily Breathing Rate (DBR)	L/kg-day	361	1090	95th percentile (OEHHA, 2015)
Inhalation absorption factor (A)	unitless	1.0	1.0	OEHHA, 2015
Exposure Frequency (EF)	unitless	0.96	0.96	350 days/365 days in a year (OEHHA, 2015)
Dose Conversion Factor (CF_D)	$\text{mg}\cdot\text{m}^3/\mu\text{g}\cdot\text{L}$	0.000001	0.000001	Conversion of μg to mg and L to m^3
Dose	mg/kg/day	0.000003	0.000009	$C\cdot\text{DBR}\cdot A\cdot\text{EF}\cdot\text{CF}_D$ (OEHHA, 2015)
Cancer Potency Factor (CPF)	$(\text{mg}/\text{kg}/\text{day})^{-1}$	1.1	1.1	OEHHA, 2015
Age Sensitivity Factor (ASF)	unitless	10	10	OEHHA, 2015
Annual Exposure Duration (ED)	years	0.25	0.63	Based on total construction period from 1/4 to 11/
Averaging Time (AT)	years	70	70	70 years for residents (OEHHA, 2015)
Fraction of time at home (FAH)	unitless	0.85	0.85	OEHHA, 2015
Cancer Risk Conversion Factor (CF)	m^3/L	1000000	1000000	Chances per million (OEHHA, 2015)
Cancer Risk	per million	0.10	0.79	$D\cdot\text{CPF}\cdot\text{ASF}\cdot\text{ED}/\text{AT}\cdot\text{FAH}\cdot\text{CF}$ (OEHHA, 2015)
Total Cancer Risk	per million	0.89		At MEIR location
Hazard Index for DPM	Units	Value	Notes	
Chronic REL	$\mu\text{g}/\text{m}^3$	5.0	OEHHA, 2015	
Chronic Hazard Index for DPM	unitless	0.00	At MEIR location	

Notes:

DPM = diesel particulate matter

REL = reference exposure level

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

L/kg-day = liters per kilogram-day

m^3/L = cubic meters per liter

$(\text{mg}/\text{kg}/\text{day})^{-1}$ = 1/milligrams per kilograms per day

MEIR = maximum exposed individual resident

Office of Environmental Health Hazard Assessment (OEHHA), 2015. *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. February.

Summary of ISCST3 Model Parameters, Assumptions, and Results for DPM and PM_{2.5} Emissions during Truck Operation

ISCST3 Model Parameters and Assumptions				
Source Type	Units	Value	Notes	
Line-Area Source: On-Road Vehicle Exhaust (Project)				
Work Hours/Day	hours/day	24	Assume that the warehouse operates around the clock based on the	
DPM Emission Rate	grams/second	0.00242	Conservatively assume that total PM10 from all on-road vehicles are	
Average trip length from Vehicles	meters	18799	Total VMT divided by total trips converted to meters	
Road length	meters	5858	Segment of Atlas Road along project boundary	
DPM Emission Rate in Vicinity	grams/second	7.55E-04		
Number of Sources	count	4		
Length of Side	meters	9	ISCST3 Calculator	
Release Height	meters	3	BAAQMD, 2012	
Initial Vertical Dimension	meters	2.8	ISCST3 Calculator	
Point Source: Emergency Fire Pump (Project)				
Total work hours	hours/day	24	Assume emissions from 50 hours of maintenance and testing are even	
DPM Emission Rate	grams/second	3.1E-05		
Release Height	meters	3.66	Consistent with modeling assumptions used in the CRRP-HRA	
Gas Exit Temperature	K	739.8	Consistent with modeling assumptions used in the CRRP-HRA	
Stack Inside Diameter	meters	1.83	Consistent with modeling assumptions used in the CRRP-HRA	
Gas Exit Velocity	m/s	45.3	Consistent with modeling assumptions used in the CRRP-HRA	
ISCST3 Model Results				
Sensitive Receptor	Pollutant	Annual Average Concentration		
MEIR	DPM (µg/m ³)	0.00454		
	PM _{2.5} (µg/m ³)	0.00431		

Notes:

DPM = diesel particulate matter

PM₁₀ = particulate matter with aerodynamic resistance diameters equal to or less than 10 microns

PM_{2.5} = particulate matter with aerodynamic resistance diameters equal to or less than 2.5 microns

µg/m³ = micrograms per cubic meter

Sacramento Metropolitan Air Quality Management District (SMAQMD), 2015. *Guide to Air Quality Assessment in Sacramento County*.

Summary of Health Risk Assessment for the MEIR during Operation

DPM Emissions from Construction

Inhalation Cancer Risk Assessment for DPM	Units	Age Group				Notes
		3rd Trimester	0-2 Years	2-16 Years	16 - 70 Years	
DPM Concentration (C)	$\mu\text{g}/\text{m}^3$	0.0045	0.0045	0.0045	0.0045	ISCST3 Annual Average
Daily Breathing Rate (DBR)	L/kg-day	361	1090	745	290	95th percentile (OEHHA, 2015)
Inhalation absorption factor (A)	unitless	1.0	1.0	1.0	1.0	OEHHA, 2015
Exposure Frequency (EF)	unitless	0.96	0.96	0.96	0.96	350 days/365 days in a year (OEHHA, 2015)
Dose Conversion Factor (CF_D)	$\text{mg}\cdot\text{m}^3/\mu\text{g}\cdot\text{L}$	0.000001	0.000001	0.000001	0.000001	Conversion of μg to mg and L to m^3
Dose (D)	$\text{mg}/\text{kg}/\text{day}$	0.000002	0.000005	0.000003	0.000001	$\text{C}\cdot\text{DBR}\cdot\text{A}\cdot\text{EF}\cdot\text{CF}_D$ (OEHHA, 2015)
Cancer Potency Factor (CPF)	$(\text{mg}/\text{kg}/\text{day})^{-1}$	1.1	1.1	1.1	1.1	OEHHA, 2015
Age Sensitivity Factor (ASF)	unitless	10	10	3	1	OEHHA, 2015
Annual Exposure Duration (ED)	years	0.25	2.00	14.00	14.00	Assume 30 year duration for residents
Averaging Time (AT)	years	70	70	70	70	70 years for residents (OEHHA, 2015)
Fraction of time at home (FAH)	unitless	0.85	0.85	0.72	0.73	OEHHA, 2015
Cancer Risk Conversion Factor (CF)	unitless	1000000	1000000	1000000	1000000	Chances per million (OEHHA, 2015)
Cancer Risk	per million	0.05	1.27	1.54	0.20	$\text{D}\cdot\text{CPF}\cdot\text{ASF}\cdot\text{ED}/\text{AT}\cdot\text{FAH}\cdot\text{CF}$ (OEHHA, 2015)
Total Cancer Risk	per million	3.07				At MEIR location
Hazard Index for DPM	Units	Value	Notes			
Chronic REL	$\mu\text{g}/\text{m}^3$	5.0	OEHHA, 2015			
Chronic Hazard Index for DPM	unitless	0.001	At Offsite MEIR location			

Notes:

DPM = diesel particulate matter

REL = reference exposure level

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

L/kg-day = liters per kilogram-day

m^3/L = cubic meters per liter

$(\text{mg}/\text{kg}/\text{day})^{-1}$ = 1/milligrams per kilograms per day

MEIR = maximum exposed individual resident

Office of Environmental Health Hazard Assessment (OEHHA), 2015. *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. February.

APPENDIX C:

DEVELOPMENT CHECKLIST

DEVELOPMENT CHECKLIST

The following checklist has been developed to assist project applicants and City staff to determine whether a proposed project complies with the Climate Action Plan.

If the proposed project's expected GHG emissions were not considered in the GHG emissions 2020 and 2035 forecast included in **Appendix A** of the CAP, this checklist is provided for informational use but may not preclude preparation of separate GHG analysis for the project. Examples of projects that may not be incorporated into the City's forecast include stationary source emissions regulated by the Bay Area Air Quality Management District, General Plan amendments, new specific plans that exceed the City's proposed population and job growth forecasts, and GHG emissions used in specific manufacturing processes that are not easily tracked at a community-wide level.

PROJECT DESCRIPTION/CHARACTERISTICS

Please identify the applicable land uses included in the proposed project and provide a brief description of the proposed project (or the project description to be used for the associated environmental document).

Identify the applicable land uses:

☐ Residential ☐ Commercial ☒ Industrial ☐ Manufacturing ☐ Other

Project Description:

The Project is in the south-central portion of the City and is surrounded by light industrial and commercial uses. The Project would demolish all existing on-site buildings, currently vacant, and construct a new 491,040-square foot creative industrial buildings with two supporting offices. The Project would also include 346 parking spaces.

APPENDIX C:

DEVELOPMENT CHECKLIST

AMENDMENTS REQUESTED

Does the project require an amendment to any of the following planning documents?

General Plan: ☐ Yes ☒ No ☐ Not Sure

Midtown Specific Plan: ☐ Yes ☒ No ☐ Not Sure

Transit Area Specific Plan: ☐ Yes ☒ No ☐ Not Sure

GHG EMISSIONS INCORPORATED WITHIN CITY GHG FORECAST

Was this project, and its potential GHG emissions sources, considered in the City's GHG inventory and forecast?

☐ Yes ☐ No ☒ To be determined by staff

PROJECT SOURCES OF GHG EMISSIONS CONSIDERED IN CITY INVENTORY

Identify the activities and sources of GHG emissions anticipated by the proposed project during either the construction or operational phases of the project.

Potential GHG Emissions Sources:		
☒ Electricity Use	☒ Res./Comm./Ind. Waste	☒ Gasoline or Diesel Use
☒ Natural Gas Use	☒ Wastewater Disposal	☒ Transportation (On-Road)
☒ Const. & Demolition Waste	☒ Water Use	☒ Off-Road Equipment
☐ Other _____		

APPLICABLE MEASURES/COMPLIANCE

Identify in the checklist below the applicable measures that will be implemented as part of the proposed project to demonstrate consistency with the City's Climate Action Plan.

Required Measures

This list includes measures and actions included in the CAP that are (1) required to be included in the project design and implementation and (2) currently being implemented by the City. By following these

APPENDIX C:

DEVELOPMENT CHECKLIST

two conditions and meeting the requirements identified below, the project demonstrates consistency with the CAP. As the City implements additional CAP measures, they will be added to this list.

Measure	Action	Applicability	Compliance*
2.1 Energy Efficiency in New Development	D. New nonresidential construction greater than 50000 gross square feet must be verified as LEED silver (MMC II-20-3.0 I(c)).	Applicable.	☒ Yes ☐ No ☐ N/A
4.1 Tiered Water Rates	c. Implement the water-efficient landscaping ordinance and the water conservation ordinance.	Applicable.	☒ Yes ☐ No ☐ N/A
4.2 Recycled Water	B. Continue to require all commercial and industrial development south of the Hetch Hetchy right-of-way to install recycled water lines, and require conversion of landscape irrigation to recycled water as soon as available.	Applicable.	☒ Yes ☐ No ☐ N/A
			☐ Yes ☐ No ☐ N/A
			☐ Yes ☐ No ☐ N/A
			☐ Yes ☐ No ☐ N/A
			☐ Yes ☐ No ☐ N/A

* All measures that are considered applicable on this list are required to be implemented in order to demonstrate consistency with the CAP.

RECOMMENDED MEASURES

This list includes measures and actions identified in the CAP, or programs and regulations that have yet to be adopted by the City, which would apply to a project of this type. These measures should be included in the project design as feasible and, once implemented or adopted by the City, be included in the list of required measures above.

Measure	Action	Applicability	Compliance*
3.1 Renewable Energy in New Development	A. Encourage through the discretionary process all new nonresidential development to meet energy needs with renewable energy sources.	Applicable.	☒ Yes ☐ No ☐ N/A
4.1 Tiered Water Rates	B. Encourage the installation and use of greywater and rainwater harvesting systems to reduce outdoor potable water use.	Applicable.	☒ Yes ☐ No ☐ N/A
8.1: Transportation Demand Management	B. Allow proximity to BART to support TDM requirements for new development.	Applicable.	☒ Yes ☐ No ☐ N/A
11.1 Waste Diversion	D. Amend the building demolition permit requirements and adopt a comprehensive construction and demolition ordinance to reach a 75 percent diversion rate.	Applicable.	☒ Yes ☐ No ☐ N/A
12.2 Construction Best Management Practices	A. The City will encourage new development to comply with applicable BAAQMD best management practices.	Applicable.	☒ Yes ☐ No ☐ N/A
			☐ Yes ☐ No ☐ N/A

* All measures considered applicable on this list should be considered for implementation in order to demonstrate consistency with the CAP.

APPENDIX C:

DEVELOPMENT CHECKLIST

OTHER GHG REDUCTION MEASURES IMPLEMENTED

List and describe any additional measures that this project will incorporate to reduce GHG emissions that are not included in the CAP. If available, provide the estimated GHG reductions that would occur on an annual basis from implementing the measure, in MTCO₂e.

Additional Measure	Estimated Annual GHG Reductions (MTCO ₂ e)
The Project Applicant is required to prepare and submit a GHG Reduction Plan under Mitigation GHG-1.	Not known at this time