

APPENDIX 11.2
**Air Quality/
Greenhouse Gas Emissions/
Energy Data**

Bay Bridge Pump Station and Force Mains - South Coast AQMD Air District, Winter

Bay Bridge Pump Station and Force Mains
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.57	Acre	0.57	24,829.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Proposed Project

Land Use - Proposed Project

Construction Phase - Proposed Schedule

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Proposed Equipment

Grading - Proposed Cut and Fill

Demolition -

Trips and VMT - Proposed Trips

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	2.00	83.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	100.00	786.00
tblConstructionPhase	PhaseEndDate	9/6/2020	12/30/2020
tblConstructionPhase	PhaseEndDate	9/6/2020	12/25/2020
tblConstructionPhase	PhaseEndDate	9/6/2020	9/1/2023
tblConstructionPhase	PhaseEndDate	9/6/2020	6/9/2023
tblConstructionPhase	PhaseEndDate	9/6/2020	1/5/2024
tblConstructionPhase	PhaseStartDate	9/7/2020	11/30/2020
tblConstructionPhase	PhaseStartDate	9/7/2020	7/10/2023
tblConstructionPhase	PhaseStartDate	9/7/2020	5/15/2023
tblConstructionPhase	PhaseStartDate	9/7/2020	1/1/2021
tblGrading	AcresOfGrading	0.00	0.57
tblGrading	MaterialExported	0.00	6,832.00
tblOffRoadEquipment	HorsePower	231.00	81.00
tblOffRoadEquipment	HorsePower	89.00	247.00
tblOffRoadEquipment	LoadFactor	0.29	0.73
tblOffRoadEquipment	LoadFactor	0.20	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Cranes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Cranes

tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	1.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	99.00	0.00
tblTripsAndVMT	HaulingTripNumber	135.00	0.00
tblTripsAndVMT	HaulingTripNumber	22.00	0.00
tblTripsAndVMT	HaulingTripNumber	99.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	58.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

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

2020	5.1225	46.7847	41.7821	0.0722	6.8189	2.5704	9.3893	2.9262	2.4123	5.3385	0.0000	7,010.1449	7,010.1449	1.4883	0.0000	7,047.3529
2021	4.1502	38.4947	38.5429	0.0621	0.1374	2.0566	2.1940	0.0370	1.9308	1.9678	0.0000	5,914.3001	5,914.3001	1.4354	0.0000	5,950.1838
2022	3.7306	34.3657	38.1133	0.0620	0.1374	1.7426	1.8800	0.0370	1.6370	1.6740	0.0000	5,911.3347	5,911.3347	1.4266	0.0000	5,946.9995
2023	4.1722	37.3202	45.8399	0.0759	1.6252	1.8019	3.4271	0.3060	1.6974	2.0033	0.0000	7,247.0000	7,247.0000	1.6307	0.0000	7,287.7680
2024	3.2427	29.5507	37.7865	0.0620	0.1374	1.3496	1.4870	0.0370	1.2670	1.3040	0.0000	5,903.9129	5,903.9129	1.4100	0.0000	5,939.1635
Maximum	5.1225	46.7847	45.8399	0.0759	6.8189	2.5704	9.3893	2.9262	2.4123	5.3385	0.0000	7,247.0000	7,247.0000	1.6307	0.0000	7,287.7680

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.1225	46.7847	41.7821	0.0722	2.8639	2.5704	5.4343	1.1777	2.4123	3.5900	0.0000	7,010.1449	7,010.1449	1.4883	0.0000	7,047.3529
2021	4.1502	38.4947	38.5429	0.0621	0.1074	2.0566	2.1640	0.0297	1.9308	1.9605	0.0000	5,914.3001	5,914.3001	1.4354	0.0000	5,950.1838
2022	3.7306	34.3657	38.1133	0.0620	0.1074	1.7426	1.8500	0.0297	1.6370	1.6666	0.0000	5,911.3347	5,911.3347	1.4266	0.0000	5,946.9995
2023	4.1722	37.3202	45.8399	0.0759	0.8206	1.8019	2.6225	0.1719	1.6974	1.8692	0.0000	7,247.0000	7,247.0000	1.6307	0.0000	7,287.7680
2024	3.2427	29.5507	37.7865	0.0620	0.1074	1.3496	1.4570	0.0297	1.2670	1.2966	0.0000	5,903.9129	5,903.9129	1.4100	0.0000	5,939.1635
Maximum	5.1225	46.7847	45.8399	0.0759	2.8639	2.5704	5.4343	1.1777	2.4123	3.5900	0.0000	7,247.0000	7,247.0000	1.6307	0.0000	7,287.7680

	ROG	NOx	CO	SO2	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	54.76	0.00	26.39	56.97	0.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0107	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0107	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/7/2020	12/30/2020	5	83	
2	Demolition 1	Demolition	11/30/2020	12/25/2020	5	20	
3	Demolition 2	Demolition	7/10/2023	9/1/2023	5	40	
4	Demolition 3	Demolition	5/15/2023	6/9/2023	5	20	
5	Building Construction	Building Construction	1/1/2021	1/5/2024	5	786	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.57

Acres of Paving: 0.57

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition 3	Air Compressors	0		78	0.48
Building Construction	Cement and Mortar Mixers	0		9	0.56
Demolition 2	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition 3	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition 1	Cranes	0		231	0.29
Demolition 1	Forklifts	0		89	0.20
Demolition 1	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Pavers	0		130	0.42
Building Construction	Rollers	0		80	0.38
Demolition 2	Rubber Tired Dozers	1	1.00	247	0.40
Demolition 3	Rubber Tired Dozers	1	1.00	247	0.40
Demolition 1	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Demolition 2	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Demolition 3	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Grading	Cranes	1	8.00	81	0.73

Building Construction	Cranes	2	4.00	231	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Demolition 1	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Forklifts	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Architectural Coating	Cranes	1	6.00	231	0.29
Grading	Generator Sets	1	8.00	84	0.74
Grading	Graders	0	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Pavers	1	8.00	130	0.42
Grading	Other Construction Equipment	1	6.00	172	0.42
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Welders	2	8.00	46	0.45
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Other Construction Equipment	3	6.00	172	0.42

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition 3	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 1	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 2	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 3	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	58.00	0.00	676.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5239	0.0000	4.5239	2.4835	0.0000	2.4835			0.0000			0.0000
Off-Road	3.8799	37.1801	31.3560	0.0494		2.0936	2.0936		1.9576	1.9576		4,757.1912	4,757.1912	1.2180		4,787.6416
Total	3.8799	37.1801	31.3560	0.0494	4.5239	2.0936	6.6174	2.4835	1.9576	4.4411		4,757.1912	4,757.1912	1.2180		4,787.6416

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0397	1.5053	0.3005	3.5000e-003	0.0713	3.8500e-003	0.0751	0.0195	3.6800e-003	0.0232		377.8703	377.8703	0.0325		378.6836
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2862	0.1932	2.1349	6.2300e-003	0.6483	4.9200e-003	0.6532	0.1719	4.5300e-003	0.1765		620.8117	620.8117	0.0178		621.2568
Total	0.3259	1.6985	2.4354	9.7300e-003	0.7196	8.7700e-003	0.7283	0.1915	8.2100e-003	0.1997		998.6820	998.6820	0.0503		999.9403

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.6761	0.0000	1.6761	0.9201	0.0000	0.9201			0.0000				0.0000
Off-Road	3.8799	37.1801	31.3560	0.0494		2.0936	2.0936		1.9576	1.9576	0.0000	4,757.1912	4,757.1912	1.2180			4,787.6416
Total	3.8799	37.1801	31.3560	0.0494	1.6761	2.0936	3.7697	0.9201	1.9576	2.8778	0.0000	4,757.1912	4,757.1912	1.2180			4,787.6416

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0397	1.5053	0.3005	3.5000e-003	0.0573	3.8500e-003	0.0611	0.0161	3.6800e-003	0.0198		377.8703	377.8703	0.0325			378.6836
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.2862	0.1932	2.1349	6.2300e-003	0.5018	4.9200e-003	0.5067	0.1360	4.5300e-003	0.1405		620.8117	620.8117	0.0178			621.2568
Total	0.3259	1.6985	2.4354	9.7300e-003	0.5590	8.7700e-003	0.5678	0.1521	8.2100e-003	0.1603		998.6820	998.6820	0.0503			999.9403

3.3 Demolition 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					1.4637	0.0000	1.4637	0.2216	0.0000	0.2216			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	1,147.2352	1,147.2352	0.2169			1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	1.4637	0.4672	1.9309	0.2216	0.4457	0.6673			1,147.2352	1,147.2352	0.2169	1,152.6578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0494	0.0333	0.3681	1.0700e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		107.0365	107.0365	3.0700e-003		107.1132
Total	0.0494	0.0333	0.3681	1.0700e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		107.0365	107.0365	3.0700e-003		107.1132

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5423	0.0000	0.5423	0.0821	0.0000	0.0821			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Total	0.8674	7.8729	7.6226	0.0120	0.5423	0.4672	1.0095	0.0821	0.4457	0.5278	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0494	0.0333	0.3681	1.0700e-003	0.0865	8.5000e-004	0.0874	0.0234	7.8000e-004	0.0242		107.0365	107.0365	3.0700e-003		107.1132
Total	0.0494	0.0333	0.3681	1.0700e-003	0.0865	8.5000e-004	0.0874	0.0234	7.8000e-004	0.0242		107.0365	107.0365	3.0700e-003		107.1132

3.4 Demolition 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1181	0.0000	0.1181	0.0179	0.0000	0.0179			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698		1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	0.1181	0.2821	0.4002	0.0179	0.2698	0.2877		1,148.4055	1,148.4055	0.2089		1,153.6290

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0245	0.2880	9.6000e-004	0.1118	7.8000e-004	0.1126	0.0296	7.2000e-004	0.0304		96.1296	96.1296	2.2600e-003		96.1861
Total	0.0409	0.0245	0.2880	9.6000e-004	0.1118	7.8000e-004	0.1126	0.0296	7.2000e-004	0.0304		96.1296	96.1296	2.2600e-003		96.1861

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0438	0.0000	0.0438	6.6300e-003	0.0000	6.6300e-003			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	0.0438	0.2821	0.3259	6.6300e-003	0.2698	0.2764	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0409	0.0245	0.2880	9.6000e-004	0.0865	7.8000e-004	0.0873	0.0234	7.2000e-004	0.0242		96.1296	96.1296	2.2600e-003		96.1861
Total	0.0409	0.0245	0.2880	9.6000e-004	0.0865	7.8000e-004	0.0873	0.0234	7.2000e-004	0.0242		96.1296	96.1296	2.2600e-003		96.1861

3.5 Demolition 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0700	0.0000	1.0700	0.1620	0.0000	0.1620			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698		1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	1.0700	0.2821	1.3521	0.1620	0.2698	0.4318		1,148.4055	1,148.4055	0.2089		1,153.6290

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0818	0.0490	0.5760	1.9300e-003	0.4179	1.5600e-003	0.4195	0.1070	1.4300e-003	0.1084		192.2593	192.2593	4.5200e-003		192.3722
Total	0.0818	0.0490	0.5760	1.9300e-003	0.4179	1.5600e-003	0.4195	0.1070	1.4300e-003	0.1084		192.2593	192.2593	4.5200e-003		192.3722

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3964	0.0000	0.3964	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	0.3964	0.2821	0.6785	0.0600	0.2698	0.3298	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0818	0.0490	0.5760	1.9300e-003	0.3168	1.5600e-003	0.3184	0.0822	1.4300e-003	0.0836		192.2593	192.2593	4.5200e-003		192.3722
Total	0.0818	0.0490	0.5760	1.9300e-003	0.3168	1.5600e-003	0.3184	0.0822	1.4300e-003	0.0836		192.2593	192.2593	4.5200e-003		192.3722

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0924	38.0844	38.1030	0.0600		2.0550	2.0550		1.9293	1.9293		5,704.9132	5,704.9132	1.4255		5,740.5506
Total	4.0924	38.0844	38.1030	0.0600		2.0550	2.0550		1.9293	1.9293		5,704.9132	5,704.9132	1.4255		5,740.5506

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0461	0.0300	0.3385	1.0400e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.5668	103.5668	2.7800e-003		103.6362
Total	0.0578	0.4103	0.4399	2.0300e-003	0.1374	1.6100e-003	0.1390	0.0370	1.5200e-003	0.0385		209.3869	209.3869	9.8600e-003		209.6333

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0924	38.0844	38.1030	0.0600		2.0550	2.0550		1.9293	1.9293	0.0000	5,704.9132	5,704.9132	1.4255		5,740.5506

Total	4.0924	38.0844	38.1030	0.0600		2.0550	2.0550		1.9293	1.9293	0.0000	5,704.9132	5,704.9132	1.4255		5,740.5506
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0209	7.9000e-004	0.0217	6.2100e-003	7.6000e-004	6.9600e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0461	0.0300	0.3385	1.0400e-003	0.0865	8.2000e-004	0.0873	0.0234	7.6000e-004	0.0242		103.5668	103.5668	2.7800e-003		103.6362
Total	0.0578	0.4103	0.4399	2.0300e-003	0.1074	1.6100e-003	0.1090	0.0297	1.5200e-003	0.0312		209.3869	209.3869	9.8600e-003		209.6333

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6762	33.9779	37.7051	0.0600		1.7412	1.7412		1.6356	1.6356		5,706.6033	5,706.6033	1.4173		5,742.0352
Total	3.6762	33.9779	37.7051	0.0600		1.7412	1.7412		1.6356	1.6356		5,706.6033	5,706.6033	1.4173		5,742.0352

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0300e-003		104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0434	0.0271	0.3125	1.0000e-003	0.1118	8.0000e-004	0.1126	0.0296	7.4000e-004	0.0304		99.8537	99.8537	2.5100e-003		99.9163
Total	0.0544	0.3878	0.4083	1.9800e-003	0.1374	1.4900e-003	0.1389	0.0370	1.4000e-003	0.0384		204.7313	204.7313	9.3200e-003		204.9643

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6762	33.9779	37.7051	0.0600		1.7412	1.7412		1.6356	1.6356	0.0000	5,706.6033	5,706.6033	1.4173		5,742.0352
Total	3.6762	33.9779	37.7051	0.0600		1.7412	1.7412		1.6356	1.6356	0.0000	5,706.6033	5,706.6033	1.4173		5,742.0352

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0209	6.9000e-004	0.0215	6.2100e-003	6.6000e-004	6.8600e-003		104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0434	0.0271	0.3125	1.0000e-003	0.0865	8.0000e-004	0.0873	0.0234	7.4000e-004	0.0242		99.8537	99.8537	2.5100e-003		99.9163
Total	0.0544	0.3878	0.4083	1.9800e-003	0.1074	1.4900e-003	0.1089	0.0297	1.4000e-003	0.0310		204.7313	204.7313	9.3200e-003		204.9643

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3949	31.1961	37.4986	0.0601		1.5171	1.5171		1.4251	1.4251		5,708.4609	5,708.4609	1.4091		5,743.6887
Total	3.3949	31.1961	37.4986	0.0601		1.5171	1.5171		1.4251	1.4251		5,708.4609	5,708.4609	1.4091		5,743.6887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.0409	0.0245	0.2880	9.6000e-004	0.1118	7.8000e-004	0.1126	0.0296	7.2000e-004	0.0304		96.1296	96.1296	2.2600e-003		96.1861
Total	0.0491	0.2965	0.3727	1.9100e-003	0.1374	1.1000e-003	0.1385	0.0370	1.0300e-003	0.0380		197.8743	197.8743	8.1600e-003		198.0782

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3949	31.1961	37.4986	0.0601		1.5171	1.5171		1.4251	1.4251	0.0000	5,708.4609	5,708.4609	1.4091		5,743.6887
Total	3.3949	31.1961	37.4986	0.0601		1.5171	1.5171		1.4251	1.4251	0.0000	5,708.4609	5,708.4609	1.4091		5,743.6887

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0209	3.2000e-004	0.0212	6.2100e-003	3.1000e-004	6.5100e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.0409	0.0245	0.2880	9.6000e-004	0.0865	7.8000e-004	0.0873	0.0234	7.2000e-004	0.0242		96.1296	96.1296	2.2600e-003		96.1861
Total	0.0491	0.2965	0.3727	1.9100e-003	0.1074	1.1000e-003	0.1085	0.0297	1.0300e-003	0.0307		197.8743	197.8743	8.1600e-003		198.0782

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1959	29.2570	37.4357	0.0601		1.3486	1.3486		1.2660	1.2660		5,709.5520	5,709.5520	1.4022		5,744.6059
Total	3.1959	29.2570	37.4357	0.0601		1.3486	1.3486		1.2660	1.2660		5,709.5520	5,709.5520	1.4022		5,744.6059

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.0300e-003	0.2714	0.0823	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		101.3986	101.3986	5.8000e-003		101.5436
Worker	0.0388	0.0223	0.2685	9.3000e-004	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		92.9623	92.9623	2.0700e-003		93.0139
Total	0.0469	0.2937	0.3508	1.8800e-003	0.1374	1.0900e-003	0.1385	0.0370	1.0100e-003	0.0380		194.3609	194.3609	7.8700e-003		194.5576

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1959	29.2570	37.4357	0.0601		1.3486	1.3486		1.2660	1.2660	0.0000	5,709.5520	5,709.5520	1.4022		5,744.6059

Total	3.1959	29.2570	37.4357	0.0601		1.3486	1.3486		1.2660	1.2660	0.0000	5,709.5520	5,709.5520	1.4022		5,744.6059
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.0300e-003	0.2714	0.0823	9.5000e-004	0.0209	3.2000e-004	0.0212	6.2100e-003	3.0000e-004	6.5100e-003		101.3986	101.3986	5.8000e-003		101.5436
Worker	0.0388	0.0223	0.2685	9.3000e-004	0.0865	7.7000e-004	0.0873	0.0234	7.1000e-004	0.0242		92.9623	92.9623	2.0700e-003		93.0139
Total	0.0469	0.2937	0.3508	1.8800e-003	0.1074	1.0900e-003	0.1085	0.0297	1.0100e-003	0.0307		194.3609	194.3609	7.8700e-003		194.5576

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

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

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.559877	0.044856	0.192425	0.125967	0.017372	0.005533	0.013590	0.008298	0.001229	0.000566	0.025782	0.000654	0.003851

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

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

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Unmitigated	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Total	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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SubCategory	lb/day										lb/day					
	Architectural Coating	1.8900e-003					0.0000	0.0000			0.0000	0.0000			0.0000	
Consumer Products	8.7900e-003					0.0000	0.0000			0.0000	0.0000			0.0000		0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000			0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Total	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000			0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000		1.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Bay Bridge Pump Station and Force Mains - South Coast AQMD Air District, Summer

Bay Bridge Pump Station and Force Mains
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.57	Acre	0.57	24,829.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Proposed Project

Land Use - Proposed Project

Construction Phase - Proposed Schedule

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Proposed Equipment

Grading - Proposed Cut and Fill

Demolition -

Trips and VMT - Proposed Trips

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	2.00	83.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	100.00	786.00
tblConstructionPhase	PhaseEndDate	9/6/2020	12/30/2020
tblConstructionPhase	PhaseEndDate	9/6/2020	12/25/2020
tblConstructionPhase	PhaseEndDate	9/6/2020	9/1/2023
tblConstructionPhase	PhaseEndDate	9/6/2020	6/9/2023
tblConstructionPhase	PhaseEndDate	9/6/2020	1/5/2024
tblConstructionPhase	PhaseStartDate	9/7/2020	11/30/2020
tblConstructionPhase	PhaseStartDate	9/7/2020	7/10/2023
tblConstructionPhase	PhaseStartDate	9/7/2020	5/15/2023
tblConstructionPhase	PhaseStartDate	9/7/2020	1/1/2021
tblGrading	AcresOfGrading	0.00	0.57
tblGrading	MaterialExported	0.00	6,832.00
tblOffRoadEquipment	HorsePower	231.00	81.00
tblOffRoadEquipment	HorsePower	89.00	247.00
tblOffRoadEquipment	LoadFactor	0.29	0.73
tblOffRoadEquipment	LoadFactor	0.20	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Cranes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Cranes

tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	1.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	99.00	0.00
tblTripsAndVMT	HaulingTripNumber	135.00	0.00
tblTripsAndVMT	HaulingTripNumber	22.00	0.00
tblTripsAndVMT	HaulingTripNumber	99.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	58.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

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

2020	5.0929	46.7666	42.0242	0.0728	6.8189	2.5703	9.3892	2.9262	2.4122	5.3384	0.0000	7,073.0686	7,073.0686	1.4878	0.0000	7,110.2643
2021	4.1457	38.4933	38.5703	0.0622	0.1374	2.0566	2.1940	0.0370	1.9308	1.9678	0.0000	5,924.6289	5,924.6289	1.4351	0.0000	5,960.5055
2022	3.7263	34.3648	38.1390	0.0621	0.1374	1.7426	1.8800	0.0370	1.6370	1.6740	0.0000	5,921.3994	5,921.3994	1.4263	0.0000	5,957.0572
2023	4.1608	37.3157	45.9334	0.0761	1.6252	1.8019	3.4271	0.3060	1.6973	2.0033	0.0000	7,269.9926	7,269.9926	1.6309	0.0000	7,310.7641
2024	3.2387	29.5505	37.8110	0.0621	0.1374	1.3496	1.4870	0.0370	1.2670	1.3040	0.0000	5,913.3402	5,913.3402	1.4098	0.0000	5,948.5860
Maximum	5.0929	46.7666	45.9334	0.0761	6.8189	2.5703	9.3892	2.9262	2.4122	5.3384	0.0000	7,269.9926	7,269.9926	1.6309	0.0000	7,310.7641

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.0929	46.7666	42.0242	0.0728	2.8639	2.5703	5.4342	1.1777	2.4122	3.5899	0.0000	7,073.0686	7,073.0686	1.4878	0.0000	7,110.2643
2021	4.1457	38.4933	38.5703	0.0622	0.1074	2.0566	2.1640	0.0297	1.9308	1.9604	0.0000	5,924.6289	5,924.6289	1.4351	0.0000	5,960.5055
2022	3.7263	34.3648	38.1390	0.0621	0.1074	1.7426	1.8500	0.0297	1.6370	1.6666	0.0000	5,921.3994	5,921.3994	1.4263	0.0000	5,957.0572
2023	4.1608	37.3157	45.9334	0.0761	0.8206	1.8019	2.6225	0.1719	1.6973	1.8692	0.0000	7,269.9926	7,269.9926	1.6309	0.0000	7,310.7641
2024	3.2387	29.5505	37.8110	0.0621	0.1074	1.3496	1.4570	0.0297	1.2670	1.2966	0.0000	5,913.3402	5,913.3402	1.4098	0.0000	5,948.5860
Maximum	5.0929	46.7666	45.9334	0.0761	2.8639	2.5703	5.4342	1.1777	2.4122	3.5899	0.0000	7,269.9926	7,269.9926	1.6309	0.0000	7,310.7641

	ROG	NOx	CO	SO2	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	54.76	0.00	26.39	56.97	0.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0107	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0107	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/7/2020	12/30/2020	5	83	
2	Demolition 1	Demolition	11/30/2020	12/25/2020	5	20	
3	Demolition 2	Demolition	7/10/2023	9/1/2023	5	40	
4	Demolition 3	Demolition	5/15/2023	6/9/2023	5	20	
5	Building Construction	Building Construction	1/1/2021	1/5/2024	5	786	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.57

Acres of Paving: 0.57

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition 3	Air Compressors	0		78	0.48
Building Construction	Cement and Mortar Mixers	0		9	0.56
Demolition 2	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition 3	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition 1	Cranes	0		231	0.29
Demolition 1	Forklifts	0		89	0.20
Demolition 1	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Pavers	0		130	0.42
Building Construction	Rollers	0		80	0.38
Demolition 2	Rubber Tired Dozers	1	1.00	247	0.40
Demolition 3	Rubber Tired Dozers	1	1.00	247	0.40
Demolition 1	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Demolition 2	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Demolition 3	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Grading	Cranes	1	8.00	81	0.73

Building Construction	Cranes	2	4.00	231	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Demolition 1	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Forklifts	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Architectural Coating	Cranes	1	6.00	231	0.29
Grading	Generator Sets	1	8.00	84	0.74
Grading	Graders	0	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Pavers	1	8.00	130	0.42
Grading	Other Construction Equipment	1	6.00	172	0.42
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Welders	2	8.00	46	0.45
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Other Construction Equipment	3	6.00	172	0.42

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition 3	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 1	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 2	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 3	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	58.00	0.00	676.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5239	0.0000	4.5239	2.4835	0.0000	2.4835			0.0000			0.0000
Off-Road	3.8799	37.1801	31.3560	0.0494		2.0936	2.0936		1.9576	1.9576		4,757.1912	4,757.1912	1.2180		4,787.6416
Total	3.8799	37.1801	31.3560	0.0494	4.5239	2.0936	6.6174	2.4835	1.9576	4.4411		4,757.1912	4,757.1912	1.2180		4,787.6416

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0379	1.5068	0.2657	3.6100e-003	0.0713	3.7400e-003	0.0750	0.0195	3.5800e-003	0.0231		390.4383	390.4383	0.0305		391.2017
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2624	0.1764	2.3711	6.6600e-003	0.6483	4.9200e-003	0.6532	0.1719	4.5300e-003	0.1765		663.7621	663.7621	0.0191		664.2392
Total	0.3003	1.6832	2.6368	0.0103	0.7196	8.6600e-003	0.7282	0.1915	8.1100e-003	0.1996		1,054.2004	1,054.2004	0.0496		1,055.4409

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.6761	0.0000	1.6761	0.9201	0.0000	0.9201			0.0000				0.0000
Off-Road	3.8799	37.1801	31.3560	0.0494		2.0936	2.0936		1.9576	1.9576	0.0000	4,757.1912	4,757.1912	1.2180			4,787.6416
Total	3.8799	37.1801	31.3560	0.0494	1.6761	2.0936	3.7697	0.9201	1.9576	2.8778	0.0000	4,757.1912	4,757.1912	1.2180			4,787.6416

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0379	1.5068	0.2657	3.6100e-003	0.0573	3.7400e-003	0.0610	0.0161	3.5800e-003	0.0197		390.4383	390.4383	0.0305			391.2017
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.2624	0.1764	2.3711	6.6600e-003	0.5018	4.9200e-003	0.5067	0.1360	4.5300e-003	0.1405		663.7621	663.7621	0.0191			664.2392
Total	0.3003	1.6832	2.6368	0.0103	0.5590	8.6600e-003	0.5677	0.1521	8.1100e-003	0.1602		1,054.2004	1,054.2004	0.0496			1,055.4409

3.3 Demolition 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day						
Fugitive Dust					1.4637	0.0000	1.4637	0.2216	0.0000	0.2216			0.0000			0.0000	
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	1,147.2352	1,147.2352	0.2169			1,152.6578	
Total	0.8674	7.8729	7.6226	0.0120	1.4637	0.4672	1.9309	0.2216	0.4457	0.6673			1,147.2352	1,147.2352	0.2169		1,152.6578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0452	0.0304	0.4088	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		114.4418	114.4418	3.2900e-003			114.5240
Total	0.0452	0.0304	0.4088	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		114.4418	114.4418	3.2900e-003			114.5240

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.5423	0.0000	0.5423	0.0821	0.0000	0.0821			0.0000			0.0000	
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169			1,152.6578

Total	0.8674	7.8729	7.6226	0.0120	0.5423	0.4672	1.0095	0.0821	0.4457	0.5278	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0452	0.0304	0.4088	1.1500e-003	0.0865	8.5000e-004	0.0874	0.0234	7.8000e-004	0.0242		114.4418	114.4418	3.2900e-003		114.5240
Total	0.0452	0.0304	0.4088	1.1500e-003	0.0865	8.5000e-004	0.0874	0.0234	7.8000e-004	0.0242		114.4418	114.4418	3.2900e-003		114.5240

3.4 Demolition 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1181	0.0000	0.1181	0.0179	0.0000	0.0179			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698		1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	0.1181	0.2821	0.4002	0.0179	0.2698	0.2877		1,148.4055	1,148.4055	0.2089		1,153.6290

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0372	0.0224	0.3217	1.0300e-003	0.1118	7.8000e-004	0.1126	0.0296	7.2000e-004	0.0304		102.7930	102.7930	2.4300e-003		102.8537
Total	0.0372	0.0224	0.3217	1.0300e-003	0.1118	7.8000e-004	0.1126	0.0296	7.2000e-004	0.0304		102.7930	102.7930	2.4300e-003		102.8537

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0438	0.0000	0.0438	6.6300e-003	0.0000	6.6300e-003			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	0.0438	0.2821	0.3259	6.6300e-003	0.2698	0.2764	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0372	0.0224	0.3217	1.0300e-003	0.0865	7.8000e-004	0.0873	0.0234	7.2000e-004	0.0242		102.7930	102.7930	2.4300e-003		102.8537
Total	0.0372	0.0224	0.3217	1.0300e-003	0.0865	7.8000e-004	0.0873	0.0234	7.2000e-004	0.0242		102.7930	102.7930	2.4300e-003		102.8537

3.5 Demolition 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0700	0.0000	1.0700	0.1620	0.0000	0.1620			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698		1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	1.0700	0.2821	1.3521	0.1620	0.2698	0.4318		1,148.4055	1,148.4055	0.2089		1,153.6290

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0745	0.0448	0.6434	2.0600e-003	0.4179	1.5600e-003	0.4195	0.1070	1.4300e-003	0.1084		205.5860	205.5860	4.8500e-003		205.7074
Total	0.0745	0.0448	0.6434	2.0600e-003	0.4179	1.5600e-003	0.4195	0.1070	1.4300e-003	0.1084		205.5860	205.5860	4.8500e-003		205.7074

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3964	0.0000	0.3964	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	0.3964	0.2821	0.6785	0.0600	0.2698	0.3298	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0745	0.0448	0.6434	2.0600e-003	0.3168	1.5600e-003	0.3184	0.0822	1.4300e-003	0.0836		205.5860	205.5860	4.8500e-003		205.7074
Total	0.0745	0.0448	0.6434	2.0600e-003	0.3168	1.5600e-003	0.3184	0.0822	1.4300e-003	0.0836		205.5860	205.5860	4.8500e-003		205.7074

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0924	38.0844	38.1030	0.0600		2.0550	2.0550		1.9293	1.9293		5,704.9132	5,704.9132	1.4255		5,740.5506
Total	4.0924	38.0844	38.1030	0.0600		2.0550	2.0550		1.9293	1.9293		5,704.9132	5,704.9132	1.4255		5,740.5506

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0422	0.0274	0.3767	1.1100e-003	0.1118	8.2000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.7403	110.7403	2.9800e-003		110.8148
Total	0.0533	0.4089	0.4673	2.1300e-003	0.1374	1.5900e-003	0.1390	0.0370	1.4900e-003	0.0385		219.7157	219.7157	9.5700e-003		219.9550

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0924	38.0844	38.1030	0.0600		2.0550	2.0550		1.9293	1.9293	0.0000	5,704.9132	5,704.9132	1.4255		5,740.5506

Total	4.0924	38.0844	38.1030	0.0600		2.0550	2.0550		1.9293	1.9293	0.0000	5,704.9132	5,704.9132	1.4255		5,740.5506
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0209	7.7000e-004	0.0216	6.2100e-003	7.3000e-004	6.9400e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0422	0.0274	0.3767	1.1100e-003	0.0865	8.2000e-004	0.0873	0.0234	7.6000e-004	0.0242		110.7403	110.7403	2.9800e-003		110.8148
Total	0.0533	0.4089	0.4673	2.1300e-003	0.1074	1.5900e-003	0.1090	0.0297	1.4900e-003	0.0311		219.7157	219.7157	9.5700e-003		219.9550

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6762	33.9779	37.7051	0.0600		1.7412	1.7412		1.6356	1.6356		5,706.6033	5,706.6033	1.4173		5,742.0352
Total	3.6762	33.9779	37.7051	0.0600		1.7412	1.7412		1.6356	1.6356		5,706.6033	5,706.6033	1.4173		5,742.0352

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0256	6.7000e-004	0.0263	7.3700e-003	6.4000e-004	8.0100e-003		108.0237	108.0237	6.3500e-003		108.1823
Worker	0.0396	0.0247	0.3484	1.0700e-003	0.1118	8.0000e-004	0.1126	0.0296	7.4000e-004	0.0304		106.7724	106.7724	2.6900e-003		106.8397
Total	0.0500	0.3869	0.4339	2.0800e-003	0.1374	1.4700e-003	0.1389	0.0370	1.3800e-003	0.0384		214.7960	214.7960	9.0400e-003		215.0220

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6762	33.9779	37.7051	0.0600		1.7412	1.7412		1.6356	1.6356	0.0000	5,706.6033	5,706.6033	1.4173		5,742.0352
Total	3.6762	33.9779	37.7051	0.0600		1.7412	1.7412		1.6356	1.6356	0.0000	5,706.6033	5,706.6033	1.4173		5,742.0352

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0209	6.7000e-004	0.0215	6.2100e-003	6.4000e-004	6.8400e-003		108.0237	108.0237	6.3500e-003	108.1823
Worker	0.0396	0.0247	0.3484	1.0700e-003	0.0865	8.0000e-004	0.0873	0.0234	7.4000e-004	0.0242		106.7724	106.7724	2.6900e-003	106.8397
Total	0.0500	0.3869	0.4339	2.0800e-003	0.1074	1.4700e-003	0.1088	0.0297	1.3800e-003	0.0310		214.7960	214.7960	9.0400e-003	215.0220

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3949	31.1961	37.4986	0.0601		1.5171	1.5171		1.4251	1.4251		5,708.4609	5,708.4609	1.4091		5,743.6887
Total	3.3949	31.1961	37.4986	0.0601		1.5171	1.5171		1.4251	1.4251		5,708.4609	5,708.4609	1.4091		5,743.6887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.0372	0.0224	0.3217	1.0300e-003	0.1118	7.8000e-004	0.1126	0.0296	7.2000e-004	0.0304		102.7930	102.7930	2.4300e-003		102.8537
Total	0.0450	0.2962	0.3988	2.0100e-003	0.1374	1.0900e-003	0.1385	0.0370	1.0100e-003	0.0380		207.5401	207.5401	7.9600e-003		207.7391

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3949	31.1961	37.4986	0.0601		1.5171	1.5171		1.4251	1.4251	0.0000	5,708.4609	5,708.4609	1.4091		5,743.6887
Total	3.3949	31.1961	37.4986	0.0601		1.5171	1.5171		1.4251	1.4251	0.0000	5,708.4609	5,708.4609	1.4091		5,743.6887

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0209	3.1000e-004	0.0212	6.2100e-003	2.9000e-004	6.5000e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.0372	0.0224	0.3217	1.0300e-003	0.0865	7.8000e-004	0.0873	0.0234	7.2000e-004	0.0242		102.7930	102.7930	2.4300e-003		102.8537
Total	0.0450	0.2962	0.3988	2.0100e-003	0.1074	1.0900e-003	0.1085	0.0297	1.0100e-003	0.0307		207.5401	207.5401	7.9600e-003		207.7391

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1959	29.2570	37.4357	0.0601		1.3486	1.3486		1.2660	1.2660		5,709.5520	5,709.5520	1.4022		5,744.6059
Total	3.1959	29.2570	37.4357	0.0601		1.3486	1.3486		1.2660	1.2660		5,709.5520	5,709.5520	1.4022		5,744.6059

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6200e-003	0.2731	0.0749	9.7000e-004	0.0256	3.0000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.3673	104.3673	5.4500e-003		104.5035
Worker	0.0352	0.0204	0.3005	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		99.4209	99.4209	2.2300e-003		99.4765
Total	0.0429	0.2935	0.3754	1.9700e-003	0.1374	1.0700e-003	0.1384	0.0370	1.0000e-003	0.0380		203.7882	203.7882	7.6800e-003		203.9800

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1959	29.2570	37.4357	0.0601		1.3486	1.3486		1.2660	1.2660	0.0000	5,709.5520	5,709.5520	1.4022		5,744.6059

Total	3.1959	29.2570	37.4357	0.0601		1.3486	1.3486		1.2660	1.2660	0.0000	5,709.5520	5,709.5520	1.4022		5,744.6059
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6200e-003	0.2731	0.0749	9.7000e-004	0.0209	3.0000e-004	0.0212	6.2100e-003	2.9000e-004	6.5000e-003		104.3673	104.3673	5.4500e-003		104.5035
Worker	0.0352	0.0204	0.3005	1.0000e-003	0.0865	7.7000e-004	0.0873	0.0234	7.1000e-004	0.0242		99.4209	99.4209	2.2300e-003		99.4765
Total	0.0429	0.2935	0.3754	1.9700e-003	0.1074	1.0700e-003	0.1084	0.0297	1.0000e-003	0.0307		203.7882	203.7882	7.6800e-003		203.9800

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

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

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.559877	0.044856	0.192425	0.125967	0.017372	0.005533	0.013590	0.008298	0.001229	0.000566	0.025782	0.000654	0.003851

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

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

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Unmitigated	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Total	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.3000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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SubCategory	lb/day										lb/day					
	Architectural Coating	1.8900e-003					0.0000	0.0000			0.0000	0.0000			0.0000	
Consumer Products	8.7900e-003					0.0000	0.0000			0.0000	0.0000			0.0000		0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000			0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000		1.3000e-004
Total	0.0107	0.0000	6.0000e-005	0.0000		0.0000	0.0000			0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000		1.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Bay Bridge Pump Station and Force Mains - South Coast AQMD Air District, Annual

Bay Bridge Pump Station and Force Mains
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.57	Acre	0.57	24,829.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Proposed Project

Land Use - Proposed Project

Construction Phase - Proposed Schedule

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Proposed Equipment

Grading - Proposed Cut and Fill

Demolition -

Trips and VMT - Proposed Trips

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	2.00	83.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	100.00	786.00
tblConstructionPhase	PhaseEndDate	9/6/2020	12/30/2020
tblConstructionPhase	PhaseEndDate	9/6/2020	12/25/2020
tblConstructionPhase	PhaseEndDate	9/6/2020	9/1/2023
tblConstructionPhase	PhaseEndDate	9/6/2020	6/9/2023
tblConstructionPhase	PhaseEndDate	9/6/2020	1/5/2024
tblConstructionPhase	PhaseStartDate	9/7/2020	11/30/2020
tblConstructionPhase	PhaseStartDate	9/7/2020	7/10/2023
tblConstructionPhase	PhaseStartDate	9/7/2020	5/15/2023
tblConstructionPhase	PhaseStartDate	9/7/2020	1/1/2021
tblGrading	AcresOfGrading	0.00	0.57
tblGrading	MaterialExported	0.00	6,832.00
tblOffRoadEquipment	HorsePower	231.00	81.00
tblOffRoadEquipment	HorsePower	89.00	247.00
tblOffRoadEquipment	LoadFactor	0.29	0.73
tblOffRoadEquipment	LoadFactor	0.20	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Cranes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Cranes

tblOffRoadEquipment	OffRoadEquipmentType			Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType			Graders
tblOffRoadEquipment	OffRoadEquipmentType			Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType			Excavators
tblOffRoadEquipment	OffRoadEquipmentType			Pavers
tblOffRoadEquipment	OffRoadEquipmentType			Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType			Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType			Welders
tblOffRoadEquipment	OffRoadEquipmentType			Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		3.00
tblOffRoadEquipment	UsageHours	6.00		7.00
tblOffRoadEquipment	UsageHours	1.00		6.00
tblProjectCharacteristics	OperationalYear	2018		2022
tblTripsAndVMT	HaulingTripLength	20.00		10.00
tblTripsAndVMT	HaulingTripNumber	99.00		0.00
tblTripsAndVMT	HaulingTripNumber	135.00		0.00
tblTripsAndVMT	HaulingTripNumber	22.00		0.00
tblTripsAndVMT	HaulingTripNumber	99.00		0.00
tblTripsAndVMT	WorkerTripNumber	25.00		58.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

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

2020	0.1825	1.6940	1.4841	2.5900e-003	0.2328	0.0919	0.3247	0.1134	0.0860	0.1994	0.0000	228.7684	228.7684	0.0497	0.0000	230.0113
2021	0.5410	5.0246	5.0304	8.1000e-003	0.0176	0.2684	0.2860	4.7500e-003	0.2520	0.2567	0.0000	700.6068	700.6068	0.1699	0.0000	704.8544
2022	0.4844	4.4685	4.9553	8.0700e-003	0.0175	0.2265	0.2441	4.7300e-003	0.2128	0.2175	0.0000	697.5647	697.5647	0.1682	0.0000	701.7701
2023	0.4680	4.2690	5.1576	8.4600e-003	0.0369	0.2059	0.2428	8.3400e-003	0.1935	0.2019	0.0000	731.7603	731.7603	0.1729	0.0000	736.0827
2024	8.1000e-003	0.0739	0.0945	1.5000e-004	3.4000e-004	3.3700e-003	3.7100e-003	9.0000e-005	3.1700e-003	3.2600e-003	0.0000	13.3974	13.3974	3.2000e-003	0.0000	13.4773
Maximum	0.5410	5.0246	5.1576	8.4600e-003	0.2328	0.2684	0.3247	0.1134	0.2520	0.2567	0.0000	731.7603	731.7603	0.1729	0.0000	736.0827

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1825	1.6940	1.4841	2.5900e-003	0.0986	0.0919	0.1906	0.0455	0.0860	0.1315	0.0000	228.7682	228.7682	0.0497	0.0000	230.0111
2021	0.5410	5.0245	5.0304	8.1000e-003	0.0138	0.2684	0.2822	3.8100e-003	0.2520	0.2558	0.0000	700.6060	700.6060	0.1699	0.0000	704.8536
2022	0.4844	4.4685	4.9553	8.0700e-003	0.0137	0.2265	0.2403	3.8000e-003	0.2128	0.2166	0.0000	697.5639	697.5639	0.1682	0.0000	701.7693
2023	0.4680	4.2690	5.1576	8.4600e-003	0.0234	0.2059	0.2292	5.8000e-003	0.1935	0.1993	0.0000	731.7595	731.7595	0.1729	0.0000	736.0818
2024	8.1000e-003	0.0739	0.0945	1.5000e-004	2.6000e-004	3.3700e-003	3.6400e-003	7.0000e-005	3.1700e-003	3.2400e-003	0.0000	13.3974	13.3974	3.2000e-003	0.0000	13.4773
Maximum	0.5410	5.0245	5.1576	8.4600e-003	0.0986	0.2684	0.2822	0.0455	0.2520	0.2558	0.0000	731.7595	731.7595	0.1729	0.0000	736.0818

	ROG	NOx	CO	SO2	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	50.93	0.00	14.11	55.11	0.00	8.24	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-7-2020	12-6-2020	1.4219	1.4219
2	12-7-2020	3-6-2021	1.4191	1.4191

3	3-7-2021	6-6-2021	1.4010	1.4010
4	6-7-2021	9-6-2021	1.4010	1.4010
5	9-7-2021	12-6-2021	1.3859	1.3859
6	12-7-2021	3-6-2022	1.2651	1.2651
7	3-7-2022	6-6-2022	1.2516	1.2516
8	6-7-2022	9-6-2022	1.2516	1.2516
9	9-7-2022	12-6-2022	1.2381	1.2381
10	12-7-2022	3-6-2023	1.1512	1.1512
11	3-7-2023	6-6-2023	1.2016	1.2016
12	6-7-2023	9-6-2023	1.2798	1.2798
13	9-7-2023	12-6-2023	1.1354	1.1354
14	12-7-2023	3-6-2024	0.3705	0.3705
		Highest	1.4219	1.4219

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	1.9500e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9500e-003	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9500e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9500e-003	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/7/2020	12/30/2020	5	83	
2	Demolition 1	Demolition	11/30/2020	12/25/2020	5	20	
3	Demolition 2	Demolition	7/10/2023	9/1/2023	5	40	
4	Demolition 3	Demolition	5/15/2023	6/9/2023	5	20	
5	Building Construction	Building Construction	1/1/2021	1/5/2024	5	786	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.57

Acres of Paving: 0.57

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition 3	Air Compressors	0		78	0.48
Building Construction	Cement and Mortar Mixers	0		9	0.56
Demolition 2	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition 3	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition 1	Cranes	0		231	0.29
Demolition 1	Forklifts	0		89	0.20
Demolition 1	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Pavers	0		130	0.42
Building Construction	Rollers	0		80	0.38
Demolition 2	Rubber Tired Dozers	1	1.00	247	0.40
Demolition 3	Rubber Tired Dozers	1	1.00	247	0.40
Demolition 1	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Demolition 2	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Demolition 3	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Grading	Cranes	1	8.00	81	0.73
Building Construction	Cranes	2	4.00	231	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Demolition 1	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Forklifts	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Architectural Coating	Cranes	1	6.00	231	0.29
Grading	Generator Sets	1	8.00	84	0.74
Grading	Graders	0	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40

Category	tons/yr										MT/yr					
Fugitive Dust					0.1877	0.0000	0.1877	0.1031	0.0000	0.1031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1610	1.5430	1.3013	2.0500e-003		0.0869	0.0869		0.0812	0.0812	0.0000	179.0995	179.0995	0.0459	0.0000	180.2459
Total	0.1610	1.5430	1.3013	2.0500e-003	0.1877	0.0869	0.2746	0.1031	0.0812	0.1843	0.0000	179.0995	179.0995	0.0459	0.0000	180.2459

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6000e-003	0.0637	0.0117	1.5000e-004	2.9100e-003	1.6000e-004	3.0700e-003	8.0000e-004	1.5000e-004	9.5000e-004	0.0000	14.5006	14.5006	1.1800e-003	0.0000	14.5301
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	0.0108	8.2400e-003	0.0912	2.6000e-004	0.0264	2.0000e-004	0.0266	7.0100e-003	1.9000e-004	7.2000e-003	0.0000	23.7731	23.7731	6.8000e-004	0.0000	23.7902
Total	0.0124	0.0719	0.1028	4.1000e-004	0.0293	3.6000e-004	0.0297	7.8100e-003	3.4000e-004	8.1500e-003	0.0000	38.2737	38.2737	1.8600e-003	0.0000	38.3203

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0696	0.0000	0.0696	0.0382	0.0000	0.0382	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1610	1.5430	1.3013	2.0500e-003		0.0869	0.0869		0.0812	0.0812	0.0000	179.0993	179.0993	0.0459	0.0000	180.2457

Total	0.1610	1.5430	1.3013	2.0500e-003	0.0696	0.0869	0.1564	0.0382	0.0812	0.1194	0.0000	179.0993	179.0993	0.0459	0.0000	180.2457
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-003	0.0637	0.0117	1.5000e-004	2.3400e-003	1.6000e-004	2.5000e-003	6.6000e-004	1.5000e-004	8.1000e-004	0.0000	14.5006	14.5006	1.1800e-003	0.0000	14.5301
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	0.0108	8.2400e-003	0.0912	2.6000e-004	0.0205	2.0000e-004	0.0207	5.5500e-003	1.9000e-004	5.7400e-003	0.0000	23.7731	23.7731	6.8000e-004	0.0000	23.7902
Total	0.0124	0.0719	0.1028	4.1000e-004	0.0228	3.6000e-004	0.0232	6.2100e-003	3.4000e-004	6.5500e-003	0.0000	38.2737	38.2737	1.8600e-003	0.0000	38.3203

3.3 Demolition 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0146	0.0000	0.0146	2.2200e-003	0.0000	2.2200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6700e-003	0.0787	0.0762	1.2000e-004		4.6700e-003	4.6700e-003		4.4600e-003	4.4600e-003	0.0000	10.4075	10.4075	1.9700e-003	0.0000	10.4567
Total	8.6700e-003	0.0787	0.0762	1.2000e-004	0.0146	4.6700e-003	0.0193	2.2200e-003	4.4600e-003	6.6800e-003	0.0000	10.4075	10.4075	1.9700e-003	0.0000	10.4567

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.4000e-004	3.7900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9877	0.9877	3.0000e-005	0.0000	0.9884
Total	4.5000e-004	3.4000e-004	3.7900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9877	0.9877	3.0000e-005	0.0000	0.9884

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					5.4200e-003	0.0000	5.4200e-003	8.2000e-004	0.0000	8.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6700e-003	0.0787	0.0762	1.2000e-004		4.6700e-003	4.6700e-003		4.4600e-003	4.4600e-003	0.0000	10.4075	10.4075	1.9700e-003	0.0000	10.4567
Total	8.6700e-003	0.0787	0.0762	1.2000e-004	5.4200e-003	4.6700e-003	0.0101	8.2000e-004	4.4600e-003	5.2800e-003	0.0000	10.4075	10.4075	1.9700e-003	0.0000	10.4567

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.4000e-004	3.7900e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.9877	0.9877	3.0000e-005	0.0000	0.9884
Total	4.5000e-004	3.4000e-004	3.7900e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.9877	0.9877	3.0000e-005	0.0000	0.9884

3.4 Demolition 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3600e-003	0.0000	2.3600e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0129	0.1156	0.1479	2.4000e-004		5.6400e-003	5.6400e-003		5.4000e-003	5.4000e-003	0.0000	20.8363	20.8363	3.7900e-003	0.0000	20.9311
Total	0.0129	0.1156	0.1479	2.4000e-004	2.3600e-003	5.6400e-003	8.0000e-003	3.6000e-004	5.4000e-003	5.7600e-003	0.0000	20.8363	20.8363	3.7900e-003	0.0000	20.9311

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	5.0000e-004	5.9300e-003	2.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	6.0000e-004	0.0000	1.7741	1.7741	4.0000e-005	0.0000	1.7751
Total	7.4000e-004	5.0000e-004	5.9300e-003	2.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	6.0000e-004	0.0000	1.7741	1.7741	4.0000e-005	0.0000	1.7751

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8000e-004	0.0000	8.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0129	0.1156	0.1479	2.4000e-004		5.6400e-003	5.6400e-003		5.4000e-003	5.4000e-003	0.0000	20.8363	20.8363	3.7900e-003	0.0000	20.9311
Total	0.0129	0.1156	0.1479	2.4000e-004	8.8000e-004	5.6400e-003	6.5200e-003	1.3000e-004	5.4000e-003	5.5300e-003	0.0000	20.8363	20.8363	3.7900e-003	0.0000	20.9311

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	5.0000e-004	5.9300e-003	2.0000e-005	1.7000e-003	2.0000e-005	1.7200e-003	4.6000e-004	1.0000e-005	4.8000e-004	0.0000	1.7741	1.7741	4.0000e-005	0.0000	1.7751
Total	7.4000e-004	5.0000e-004	5.9300e-003	2.0000e-005	1.7000e-003	2.0000e-005	1.7200e-003	4.6000e-004	1.0000e-005	4.8000e-004	0.0000	1.7741	1.7741	4.0000e-005	0.0000	1.7751

3.5 Demolition 3 - 2023

Unmitigated Construction On-Site

Off-Road	6.4600e-003	0.0578	0.0739	1.2000e-004		2.8200e-003	2.8200e-003		2.7000e-003	2.7000e-003	0.0000	10.4182	10.4182	1.9000e-003	0.0000	10.4655
Total	6.4600e-003	0.0578	0.0739	1.2000e-004	3.9600e-003	2.8200e-003	6.7800e-003	6.0000e-004	2.7000e-003	3.3000e-003	0.0000	10.4182	10.4182	1.9000e-003	0.0000	10.4655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	5.0000e-004	5.9300e-003	2.0000e-005	3.1100e-003	2.0000e-005	3.1200e-003	8.1000e-004	1.0000e-005	8.2000e-004	0.0000	1.7741	1.7741	4.0000e-005	0.0000	1.7751
Total	7.4000e-004	5.0000e-004	5.9300e-003	2.0000e-005	3.1100e-003	2.0000e-005	3.1200e-003	8.1000e-004	1.0000e-005	8.2000e-004	0.0000	1.7741	1.7741	4.0000e-005	0.0000	1.7751

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5341	4.9700	4.9725	7.8300e-003		0.2682	0.2682		0.2518	0.2518	0.0000	675.3910	675.3910	0.1688	0.0000	679.6101
Total	0.5341	4.9700	4.9725	7.8300e-003		0.2682	0.2682		0.2518	0.2518	0.0000	675.3910	675.3910	0.1688	0.0000	679.6101

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4800e-003	0.0505	0.0125	1.3000e-004	3.2900e-003	1.0000e-004	3.3900e-003	9.5000e-004	1.0000e-004	1.0500e-003	0.0000	12.7445	12.7445	8.1000e-004	0.0000	12.7646
Worker	5.4400e-003	4.0200e-003	0.0455	1.4000e-004	0.0143	1.1000e-004	0.0144	3.8000e-003	1.0000e-004	3.9000e-003	0.0000	12.4714	12.4714	3.3000e-004	0.0000	12.4797
Total	6.9200e-003	0.0545	0.0580	2.7000e-004	0.0176	2.1000e-004	0.0178	4.7500e-003	2.0000e-004	4.9500e-003	0.0000	25.2158	25.2158	1.1400e-003	0.0000	25.2443

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	0.5341	4.9700	4.9724	7.8300e-003		0.2682	0.2682		0.2518	0.2518	0.0000	675.3902	675.3902	0.1688	0.0000	679.6092
Total	0.5341	4.9700	4.9724	7.8300e-003		0.2682	0.2682		0.2518	0.2518	0.0000	675.3902	675.3902	0.1688	0.0000	679.6092

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4800e-003	0.0505	0.0125	1.3000e-004	2.6800e-003	1.0000e-004	2.7900e-003	8.0000e-004	1.0000e-004	9.0000e-004	0.0000	12.7445	12.7445	8.1000e-004	0.0000	12.7646
Worker	5.4400e-003	4.0200e-003	0.0455	1.4000e-004	0.0111	1.1000e-004	0.0112	3.0100e-003	1.0000e-004	3.1100e-003	0.0000	12.4714	12.4714	3.3000e-004	0.0000	12.4797
Total	6.9200e-003	0.0545	0.0580	2.7000e-004	0.0138	2.1000e-004	0.0140	3.8100e-003	2.0000e-004	4.0100e-003	0.0000	25.2158	25.2158	1.1400e-003	0.0000	25.2443

3.6 Building Construction - 2022

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	0.4779	4.4171	4.9017	7.8100e-003		0.2264	0.2264		0.2126	0.2126	0.0000	673.0027	673.0027	0.1671	0.0000	677.1813
Total	0.4779	4.4171	4.9017	7.8100e-003		0.2264	0.2264		0.2126	0.2126	0.0000	673.0027	673.0027	0.1671	0.0000	677.1813

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3900e-003	0.0477	0.0118	1.3000e-004	3.2800e-003	9.0000e-005	3.3700e-003	9.5000e-004	8.0000e-005	1.0300e-003	0.0000	12.5838	12.5838	7.7000e-004	0.0000	12.6032
Worker	5.0900e-003	3.6200e-003	0.0418	1.3000e-004	0.0143	1.0000e-004	0.0144	3.7900e-003	1.0000e-004	3.8800e-003	0.0000	11.9782	11.9782	3.0000e-004	0.0000	11.9857
Total	6.4800e-003	0.0513	0.0536	2.6000e-004	0.0175	1.9000e-004	0.0177	4.7400e-003	1.8000e-004	4.9100e-003	0.0000	24.5620	24.5620	1.0700e-003	0.0000	24.5888

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	0.4779	4.4171	4.9017	7.8100e-003		0.2264	0.2264		0.2126	0.2126	0.0000	673.0019	673.0019	0.1671	0.0000	677.1805
Total	0.4779	4.4171	4.9017	7.8100e-003		0.2264	0.2264		0.2126	0.2126	0.0000	673.0019	673.0019	0.1671	0.0000	677.1805

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3900e-003	0.0477	0.0118	1.3000e-004	2.6700e-003	9.0000e-005	2.7600e-003	8.0000e-004	8.0000e-005	8.8000e-004	0.0000	12.5838	12.5838	7.7000e-004	0.0000	12.6032
Worker	5.0900e-003	3.6200e-003	0.0418	1.3000e-004	0.0111	1.0000e-004	0.0112	3.0000e-003	1.0000e-004	3.0900e-003	0.0000	11.9782	11.9782	3.0000e-004	0.0000	11.9857
Total	6.4800e-003	0.0513	0.0536	2.6000e-004	0.0137	1.9000e-004	0.0139	3.8000e-003	1.8000e-004	3.9700e-003	0.0000	24.5620	24.5620	1.0700e-003	0.0000	24.5888

3.6 Building Construction - 2023

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	0.4413	4.0555	4.8748	7.8100e-003		0.1972	0.1972		0.1853	0.1853	0.0000	673.2217	673.2217	0.1662	0.0000	677.3763
Total	0.4413	4.0555	4.8748	7.8100e-003		0.1972	0.1972		0.1853	0.1853	0.0000	673.2217	673.2217	0.1662	0.0000	677.3763

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0400e-003	0.0359	0.0105	1.3000e-004	3.2800e-003	4.0000e-005	3.3200e-003	9.5000e-004	4.0000e-005	9.8000e-004	0.0000	12.2045	12.2045	6.7000e-004	0.0000	12.2213
Worker	4.7900e-003	3.2700e-003	0.0386	1.3000e-004	0.0143	1.0000e-004	0.0144	3.7900e-003	9.0000e-005	3.8800e-003	0.0000	11.5314	11.5314	2.7000e-004	0.0000	11.5382
Total	5.8300e-003	0.0392	0.0491	2.6000e-004	0.0175	1.4000e-004	0.0177	4.7400e-003	1.3000e-004	4.8600e-003	0.0000	23.7360	23.7360	9.4000e-004	0.0000	23.7595

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	0.4413	4.0555	4.8748	7.8100e-003		0.1972	0.1972		0.1853	0.1853	0.0000	673.2209	673.2209	0.1662	0.0000	677.3755

Total	0.4413	4.0555	4.8748	7.8100e-003		0.1972	0.1972		0.1853	0.1853	0.0000	673.2209	673.2209	0.1662	0.0000	677.3755
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0400e-003	0.0359	0.0105	1.3000e-004	2.6700e-003	4.0000e-005	2.7100e-003	8.0000e-004	4.0000e-005	8.4000e-004	0.0000	12.2045	12.2045	6.7000e-004	0.0000	12.2213
Worker	4.7900e-003	3.2700e-003	0.0386	1.3000e-004	0.0111	1.0000e-004	0.0112	3.0000e-003	9.0000e-005	3.0900e-003	0.0000	11.5314	11.5314	2.7000e-004	0.0000	11.5382
Total	5.8300e-003	0.0392	0.0491	2.6000e-004	0.0137	1.4000e-004	0.0139	3.8000e-003	1.3000e-004	3.9300e-003	0.0000	23.7360	23.7360	9.4000e-004	0.0000	23.7595

3.6 Building Construction - 2024

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	7.9900e-003	0.0731	0.0936	1.5000e-004		3.3700e-003	3.3700e-003		3.1600e-003	3.1600e-003	0.0000	12.9491	12.9491	3.1800e-003	0.0000	13.0286
Total	7.9900e-003	0.0731	0.0936	1.5000e-004		3.3700e-003	3.3700e-003		3.1600e-003	3.1600e-003	0.0000	12.9491	12.9491	3.1800e-003	0.0000	13.0286

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.9000e-004	2.0000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2339	0.2339	1.0000e-005	0.0000	0.2342
Worker	9.0000e-005	6.0000e-005	6.9000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2145	0.2145	0.0000	0.0000	0.2146
Total	1.1000e-004	7.5000e-004	8.9000e-004	0.0000	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.4483	0.4483	1.0000e-005	0.0000	0.4488

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	7.9900e-003	0.0731	0.0936	1.5000e-004		3.3700e-003	3.3700e-003		3.1600e-003	3.1600e-003	0.0000	12.9490	12.9490	3.1800e-003	0.0000	13.0285
Total	7.9900e-003	0.0731	0.0936	1.5000e-004		3.3700e-003	3.3700e-003		3.1600e-003	3.1600e-003	0.0000	12.9490	12.9490	3.1800e-003	0.0000	13.0285

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					

Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

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

5.3 Energy by Land Use - Electricity

Unmitigated

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

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9500e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	1.9500e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Total	1.9500e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005

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	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005
Total	1.9500e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	2.0000e-005

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e

Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

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

Mitigated

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

8.2 Waste by Land Use

Unmitigated

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

Mitigated

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

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Energy Calculations of Pump Operation

250	HP			
1 HP =	0.75	kw		
1,633,083	kwh/yr ¹	=	1,633.08	MWh/yr ¹

Emissions Factors		Emissions		
	lb/MWh ²	lbs/yr	MT/yr	MTCO ₂ eq/yr
CO ₂	702.43634	1,147,136.69	520.33	520.33
CH ₄	0.029	47.36	0.02	0.45
N ₂ O	0.00617	10.08	0.00	1.42
				522.20

Notes:

1. Assumes continuous pump operation (one additional pump to on-site use) 24 hours per day 365 days per year.
2. Based on intensity factors for Southern California Edison (as provided in CalEEMod).

Land Use	Natural Gas Use	Electricity Use	Electricity Use
	(kBTU/yr)	(kWh/yr)	(MWh/yr)
Pump Station	-	1,633,080	1,633
Total	0	1,633,080	1,633
Total Therms	0		

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Orange County Annual Energy Consumption	Percentage Increase Countywide
Electricity	1,633	20,030,000	0.008%
Natural Gas	0	576,000,000	0.000%

Vehicle Type	Percent of Vehicle Trips ¹	Daily Trips ²	Annual Vehicle Miles Traveled ³	Average Fuel Economy (miles per gallon) ⁴	Total Annual Fuel Consumption (gallons) ⁵
Passenger Cars	0		0	22	0
Light/Medium Trucks	1		0	17.3	0
Heavy Trucks/Other	0		0	6.4	0
TOTAL⁶	1.00		0	--	0

Countywide
1,248,703,310 0.00%

Notes:

1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips calculated by multiplying the total daily trips by percent vehicle trips (i.e., Daily Trips x percent of Vehicle Trips).
3. Daily Vehicle Miles Traveled (VMT) calculated by multiplying percent vehicle trips by total VMT (i.e., VMT x percent of Vehicle Trips).
4. Average fuel economy derived from the Department of Transportation.
5. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
6. Values may be slightly off due to rounding.

Annual VMT
1,696,447

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Demolition	Concrete/Industrial Saws	2	8	81	0.73	2.3652	16	80	3027.456
	Other Construction Equipment	1	8	247	0.4	3.952	8	80	2529.28
	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	80	918.784
	Excavators	3	8	158	0.38	2.4016	24	80	4611.072
	Rubber Tired Dozers	2	8	247	0.4	3.952	16	80	5058.56
	Rubber Tired Loaders	2	8	203	0.36	2.9232	16	80	3741.696
Grading	Excavators	2	8	158	0.38	2.4016	16	83	3189.3248
	Graders	1	8	187	0.41	3.0668	8	83	2036.3552
	Rubber Tired Dozers	1	8	247	0.4	3.952	8	83	2624.128
	Scrapers	2	8	367	0.48	7.0464	16	83	9357.6192
	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	83	1906.4768
Building Construction	Cranes	1	7	231	0.29	2.6796	7	786	14743.1592
	Forklifts	3	8	89	0.2	0.712	24	786	13431.168
	Generator Sets	1	8	84	0.74	2.4864	8	786	15634.4832
	Tractors/Loaders/Backhoes	3	7	97	0.37	1.4356	21	786	23696.0136
	Welders	1	8	46	0.45	0.828	8	786	5206.464
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	20	179.712
Paving	Pavers	1	8	130	0.42	2.184	8	20	349.44
	Paving Equipment	2	8	132	0.36	1.9008	16	20	608.256
	Rollers	1	8	80	0.38	1.216	8	20	194.56
	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	20	229.696

Total

113,274

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

County Offroad Gallons 159,431,547
0.0007105

**Maximum Daily Construction Emissions for the Modified Northeast Pump Station
(Including Two Percent Increase from Original Northeast Pump Station)**

Emissions Source	Daily Pollutant Emissions (lbs/day) ¹					
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Year 1						
Unmitigated	5.22	47.72	42.62	0.07	9.58	5.45
Mitigated ²	5.22	47.72	42.62	0.07	5.54	3.66
SCAQMD Construction Thresholds	75	100	550	150	150	55
Mitigated Emissions Exceed Thresholds?	No	No	No	No	No	No
Year 2						
Unmitigated	4.23	39.26	39.31	0.06	2.23	2.01
Mitigated ²	4.23	39.26	39.31	0.06	2.20	2.00
SCAQMD Construction Thresholds	75	100	550	150	150	55
Mitigated Emissions Exceed Thresholds?	No	No	No	No	No	No
Year 3						
Unmitigated	3.80	35.06	38.87	0.06	1.92	1.70
Mitigated ²	3.80	35.06	38.87	0.06	1.89	1.70
SCAQMD Construction Thresholds	75	100	550	150	150	55
Mitigated Emissions Exceed Thresholds?	No	No	No	No	No	No
Year 4						
Unmitigated	4.25	38.07	46.76	0.08	3.50	2.04
Mitigated ²	4.25	38.07	46.76	0.08	2.67	1.91
SCAQMD Construction Thresholds	75	100	550	150	150	55
Mitigated Emissions Exceed Thresholds?	No	No	No	No	No	No
Year 5						
Unmitigated	3.30	30.14	38.55	0.06	1.52	1.33
Mitigated ²	3.30	30.14	38.55	0.06	1.49	1.33
SCAQMD Construction Thresholds	75	100	550	150	150	55
Mitigated Emissions Exceed Thresholds?	No	No	No	No	No	No

VOC = volatile organic compounds; NO_x = nitrogen oxides; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = particulate matter smaller than 10 microns; PM_{2.5} = particulate matter smaller than 2.5 microns

Notes:

1. Emissions were calculated using CalEEMod version 2016.3.1.
2. The reduction/credits for construction emission mitigations are based on mitigation included in CalEEMod. The mitigation includes the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces twice daily; cover stock piles with tarps; water all haul roads three times daily; limit speeds on unpaved roads to 15 miles per hour; and use CARB certified engines.
3. Regional daily construction thresholds are based on the SCAQMD significance thresholds.

Localized Significance of Emissions for the Modified Northeast Pump Station (Including Two Percent Increase from Original Northeast Pump Station)

On-Site Sources	Pollutant (pounds/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Construction				
Year 1 (2020) ¹				
Total Unmitigated On-Site Emissions	37.92	31.99	6.75	4.53
Total Mitigated On-Site Emissions	37.92	31.99	3.85	2.94
<i>Localized Significance Threshold ²</i>	131	945	7	5
Thresholds Exceeded?	No	No	No	No
Year 2 (2021) ¹				
Total Unmitigated On-Site Emissions	38.84	38.86	2.10	1.97
Total Mitigated On-Site Emissions	38.84	38.86	2.10	1.97
<i>Localized Significance Threshold ²</i>	131	945	7	5
Thresholds Exceeded?	No	No	No	No
Year 3 (2022) ¹				
Total Unmitigated On-Site Emissions	34.66	38.46	1.77	1.67
Total Mitigated On-Site Emissions	34.66	38.46	1.77	1.67
<i>Localized Significance Threshold ²</i>	131	945	7	5
Thresholds Exceeded?	No	No	No	No
Year 4 (2023) ¹				
Total Unmitigated On-Site Emissions	31.82	38.25	1.55	1.46
Total Mitigated On-Site Emissions	31.82	38.25	1.55	1.46
<i>Localized Significance Threshold ²</i>	131	945	7	5
Thresholds Exceeded?	No	No	No	No
Year 5 (2024) ¹				
Total Unmitigated On-Site Emissions	29.85	38.19	1.38	1.30
Total Mitigated On-Site Emissions	29.85	38.19	1.38	1.30
<i>Localized Significance Threshold ²</i>	131	945	7	5
Thresholds Exceeded?	No	No	No	No

Notes:

1. The highest on-site NO_x, CO, PM₁₀, and PM_{2.5} emissions for Year 1 are from the Grading phase. The highest on-site NO_x, CO, PM₁₀, and PM_{2.5} emissions for Years 2 through 4 are from the Building Construction phase.
2. The Localized Significance Threshold was determined using Appendix C of the SCAQMD Final Localized Significant Threshold Methodology guidance document for pollutants NO_x, CO, PM₁₀, and PM_{2.5}. The Localized Significance Threshold conservatively uses the 1 acre threshold, the distance to sensitive receptors (25 meters), and the source receptor area (SRA 18).