

Appendix 2

Air Quality and Greenhouse Gas Emissions

Mirman School

MND

Technical Appendix for Air Quality and Greenhouse Gas Emissions

- Appendix 2.1: Air Quality Worksheets and Modeling Output Files
- Appendix 2.2: Greenhouse Gas Worksheets and Modeling Output Files

Mirman School

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Appendix 2.1

Air Quality Worksheets and Modeling Output Files

- Appendix 2.1: Air Quality
 - Project Construction and Operational Emissions Summary
 - Localized Significance Threshold (LST) Calculation Worksheet
 - Construction Assumptions
 - CalEEMod Outputs – Operations (Baseline and Project)
 - Baseline (Buildout)
 - Buildout
 - Construction Onsite

Mirman School
Air Quality Emissions Summary

AQ SUMMARY OF EMISSIONS							
Construction Emissions (Unmitigated)							
Regional (Daily) Unmitigated							
	ROG	NOx	CO	SO2	PM10	PM2.5	
2022	3	33	28	0	3	1	
2023	12	45	53	0	3	2	
MAX	12	45	53	<1	3	2	
Threshold	75	100	550	150	150	55	
Difference	(63)	(55)	(497)	(150)	(147)	(53)	
Impact	No	No	No	No	No	No	
Localized (Daily) Unmitigated							
	ROG	NOx	CO	SO2	PM10	PM2.5	
2022	3	25	26	<1	1	1	
2023	12	44	50	<1	2	2	
MAX		44	50	<1	2	2	
Threshold		102	679		5	3	
Difference		(57)	(629)		(3)	(1)	
Impact		No	No		No	No	

Operation Emissions (Without Project Design Features)							
Regional Baseline (Buildout Year)							
	ROG	NOx	CO	SO2	PM10	PM2.5	
Area	<1	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	1	6	17	<1	7	2	
Emergency Generator	<1	<1	<1	<1	<1	<1	
Total	2	6	17	<1	7	2	
Regional Buildout (Buildout Year)							
	ROG	NOx	CO	SO2	PM10	PM2.5	
Area	1	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	2	7	22	<1	9	3	
Emergency Generator	<1	1	1	<1	<1	<1	
Total	4	9	23	<1	9	3	
Project Regional (Buildout Less Baseline (Buildout Year))							
	ROG	NOx	CO	SO2	PM10	PM2.5	
Area	1	0	0	0	0	0	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	2	7	22	0	9	3	
Emergency Generator	<1	1	1	<1	<1	<1	
Total	4	9	23	0	9	3	
Threshold	55	55	550	150	150	55	
Difference	(51)	(46)	(527)	(150)	(141)	(52)	
Impact	No	No	No	No	No	No	
Project Localized (Buildout Less Baseline (Buildout Year))							
Onsite Total	2		1		0	0.1	
Threshold		102	679		2	1	
Difference		(100)	(677)		(2)	(1)	
Impact		No	No		No	No	

Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data

Northwest LA NO2 Monitoring Data

SRA	City	Design Value	98th percentile, ppb		
		2014-2016	2016	2017	2018
6	Northwest LA	50	46	54	50

SRA	City	Design Value	Max Hourly, ppb		
		2006-2008	2016	2017	2018
6	Northwest LA	120	56	63	57

Threshold (ppb) Allowable Increase (ppb)
100 50

Threshold (ppb) Allowable Increase (ppb)
180 60

Max Hourly vs. 98th Percentile Ratio (Allowable Increase)	83%
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Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area

LST Threshold (SRA 6, 25 meter receptor)

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 Ops (lbs/day)	PM2.5 Ops (lbs/day)
1	103	86	562	4	3	1	1
2	147	122	827	6	4	2	1
5	172	143	1158	11	6	3	2
1.45	122	102	679	5	3	1	1

<----Interpolated Value

MIRMAN SCHOOL
Construction Assumptions

*These assumptions reflect all proposed work in a single phase even though some components may be performed later.

Construction Details	Start Date	End Date	Duration (Months)	Work Days	Max Daily Employee Trips	Max Daily Hauls	Total Hauls	Max Daily Deliveries	Construction (Sq Ft)		
									Residential	Non-Residential	Parking (Spaces)
Overall Duration	6/1/2022	7/31/2023	14	365							
Demolition	6/1/2022	6/25/2022	1	18	20	15	101				
Grading/Excavation/Site Utilities	6/23/2022	8/24/2022	3	45	20	23	160	2			
Building Foundation	8/25/2022	10/5/2022	2	30	35	-	-	8			
Building Construction	10/6/2022	7/31/2023	10	213	55	6	16	8		22,508	
Paving/Landscape	4/12/2023	7/31/2023	4	79	40	6	10	6			
Site Acreage (Re-developed)											
	1.45										
Demolition Quantities (CY)											
Library Renovation Debris (SF)	246										
Pavement (SF)	682										
Amphitheater Area (SF)	86										
Cubic yards	1,014										
Import/Export Quantities during Grading (CY)											
Import	0										
Export	2,200										

Equipment					
	Demo	Grading/Excavation	Foundation	Building Construction	Paving/Landscape
Air Compressor	2		1	2	1
Aerial Lift				2	
Bore/Drill Rig					
Cement and Mortar Mixers			1	1	1
Concrete/Industrial Saws	2		1		1
Cranes (Tower)					
Cranes (Mobile)				1	
Crawler Tractors					
Crushing/Proc. Equipment					
Excavators	1	1			
Forklifts				1	
Generator Sets				1	
Graders		1			
Off-Highway Tractors					
Water Truck	1	1			
Pavers					1
Paving Equipment					1
Pumps	1	1	1	1	
Plate Compactors			1		
Rollers		1			1
Rough Terrain Forklifts				1	
Rubber Tired Dozers					
Rubber Tired Loaders		1	1	1	1
Scrapers					
Signal Boards					
Skid Steer Loaders					2
Surfacing Equipment					1
Tractors/Loaders/Backhoes	1	1	1	1	
Trenchers					1
Welders			1	1	
Other ()					
Total Pieces	8	7	8	13	11

Mirman School - Existing Operations (Buildout Year) - South Coast Air Basin, Winter

Mirman School - Existing Operations (Buildout Year)
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	330.00	Student	5.46	42,678.00	0
User Defined Educational	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year	2025		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	616	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP Year 2025 Carbon Intensity = 616 lbs/MWh
 Land Use - User Defined Educational land uses represent mobile source emissions (VMT Calculator)
 Construction Phase - see construction assumptions
 Off-road Equipment - 0
 Off-road Equipment - see construction assumptions
 Off-road Equipment - see construction assumptions
 Off-road Equipment - see construction assumptions
 Off-road Equipment - see construction assumptions
 Off-road Equipment - see construction assumptions
 Trips and VMT - Haul trucks are included as part of vendor trips. Vendor vehicle class adjusted to HHDT.
 Demolition -
 Grading -
 Vehicle Trips - Edited based on VMT Calculator Data
 Area Coating -
 Energy Use -
 Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403
 Energy Mitigation - Assumes 10% reduction for compliance with 2019 Title 24
 Water Mitigation - Compliance with City of LA Green Building Code (20% Reduction in Water Usage)
 Waste Mitigation - Existing waste diversion rate for City of Los Angeles of 76.4%
 Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	21,339.00	18,601.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	64,017.00	55,803.00
tblAreaCoating	Area_Nonresidential_Exterior	21339	18601
tblAreaCoating	Area_Nonresidential_Interior	64017	55803

Mirman School
Existing Operations

tblLandUse	LandUseSquareFeet	27,589.11	42,678.00
tblLandUse	LotAcreage	0.63	5.46
tblProjectCharacteristics	CO2IntensityFactor	1227.89	616
tblTripsAndVMT	HaulingTripNumber	12.00	0.00
tblTripsAndVMT	VendorTripNumber	7.00	6.00
tblTripsAndVMT	VendorTripNumber	7.00	6.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	4.00	3.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	11.93
tblVehicleTrips	CC_TTP	30.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	65.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PR_TP	63.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	1.29	0.00
tblVehicleTrips	WD_TR	0.00	776.00

2.0 Emissions Summary

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	0.9426	3.1000e-004	0.0337	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						
Energy	0.0131	0.1192	0.1001	7.2000e-004		9.0600e-003	9.0600e-003		9.0600e-003	9.0600e-003						
Mobile	1.1749	5.6532	16.9241	0.0737	7.1579	0.0540	7.2119	1.9146	0.0501	1.9647						
Total	2.1307	5.7727	17.0580	0.0744	7.1579	0.0632	7.2210	1.9146	0.0593	1.9739						

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
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Mirman School
Existing Operations

Category	lb/day										lb/day										
	Area	Energy	Mobile	Total	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Area	0.9426	3.1000e-004	0.0337	0.0000	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003					
Energy	0.0119	0.1085	0.0912	6.5000e-004	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003					
Mobile	1.1749	5.6532	16.9241	0.0737	7.1579	0.0540	7.2119	1.9146	0.0501	1.9647											
Total	2.1295	5.7620	17.0490	0.0743	7.1579	0.0624	7.2202	1.9146	0.0585	1.9731											
Percent Reduction	0.05	0.19	0.05	0.09	0.00	1.28	0.01	0.00	1.37	0.04	0.00	0.00	1.37	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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
Mitigated	1.1749	5.6532	16.9241	0.0737	7.1579	0.0540	7.2119	1.9146	0.0501	1.9647						
Unmitigated	1.1749	5.6532	16.9241	0.0737	7.1579	0.0540	7.2119	1.9146	0.0501	1.9647						

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Elementary School	0.00	0.00	0.00		
User Defined Educational	776.00	0.00	0.00	2,406,040	2,406,040
Total	776.00	0.00	0.00	2,406,040	2,406,040

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
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Educational	0.00	11.93	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
User Defined Educational	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mirman School
Existing Operations

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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					
Natural Gas Mitigated	0.0119	0.1085	0.0912	6.5000e-004		8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003							
Natural Gas Unmitigated	0.0131	0.1192	0.1001	7.2000e-004		9.0600e-003	9.0600e-003	9.0600e-003	9.0600e-003							

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					
Elementary School	1216.03	0.0131	0.1192	0.1001	7.2000e-004		9.0600e-003	9.0600e-003	9.0600e-003	9.0600e-003	9.0600e-003						
User Defined Educational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000						
Total		0.0131	0.1192	0.1001	7.2000e-004		9.0600e-003	9.0600e-003		9.0600e-003	9.0600e-003						

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					
Elementary School	1.10706	0.0119	0.1085	0.0912	6.5000e-004		8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003	8.2500e-003						
User Defined Educational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000						
Total		0.0119	0.1085	0.0912	6.5000e-004		8.2500e-003	8.2500e-003		8.2500e-003	8.2500e-003						

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
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Mirman School
Existing Operations

Category	lb/day										lb/day						
Mitigated	0.9426	3.1000e-004	0.0337	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004							
Unmitigated	0.9426	3.1000e-004	0.0337	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-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	0.0945					0.0000	0.0000		0.0000	0.0000							
Consumer Products	0.8450					0.0000	0.0000		0.0000	0.0000							
Landscaping	3.1000e-003	3.1000e-004	0.0337	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004							
Total	0.9426	3.1000e-004	0.0337	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004							

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.0945					0.0000	0.0000		0.0000	0.0000							
Consumer Products	0.8450					0.0000	0.0000		0.0000	0.0000							
Landscaping	3.1000e-003	3.1000e-004	0.0337	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004							
Total	0.9426	3.1000e-004	0.0337	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004							

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Mirman School
Existing Operations

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

Mirman School - Construction and Operations - South Coast Air Basin, Winter

Mirman School - Construction and Operations
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	430.00	Student	5.46	65,186.00	0
User Defined Educational	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year	2025		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	616	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP Year 2025 Carbon Intensity = 616 lbs/MWh

Land Use - Square footage includes new construction.

User Defined Educational land uses represent mobile source emissions (VMT Calculator)

Construction Phase - see construction assumptions

Off-road Equipment - 0

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Trips and VMT - Haul trucks are included as part of vendor trips. Vendor vehicle class adjusted to HHDT.

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Edited based on VMT Calculator Data

Consumer Products -

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403

Energy Mitigation - Assumes 10% reduction for compliance with 2019 Title 24

Water Mitigation - Compliance with City of LA Green Building Code (20% Reduction in Water Usage)

Waste Mitigation - Existing waste diversion rate for City of Los Angeles of 76.4%

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	86.00

Mirman School
Project Construction and Operations

tblConstructionPhase	NumDays	230.00	30.00
tblConstructionPhase	NumDays	230.00	213.00
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	79.00
tblGrading	MaterialExported	0.00	2,200.00
tblLandUse	LandUseSquareFeet	35,949.45	65,186.00
tblLandUse	LotAcreage	0.83	5.46
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	616
tblTripsAndVMT	HaulingTripNumber	5.00	0.00
tblTripsAndVMT	HaulingTripNumber	275.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	75.00
tblTripsAndVMT	VendorTripLength	6.90	75.00
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	11.00	8.00
tblTripsAndVMT	VendorTripNumber	11.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	18.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	27.00	35.00
tblTripsAndVMT	WorkerTripNumber	27.00	55.00
tblTripsAndVMT	WorkerTripNumber	28.00	40.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	11.93

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tblVehicleTrips	CC_TTP	30.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	65.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PR_TP	63.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	1.29	0.00
tblVehicleTrips	WD_TR	0.00	1,010.00

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					
2022	2.9876	33.3099	27.7537	0.0960	2.3956	1.1154	3.1609	0.5656	1.0742	1.2887						
2023	12.3114	45.4478	53.0786	0.1144	1.4498	1.9919	3.4417	0.3920	1.8990	2.2910						
Maximum	12.3114	45.4478	53.0786	0.1144	2.3956	1.9919	3.4417	0.5656	1.8990	2.2910						

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					
2022	2.9876	33.3099	27.7537	0.0960	2.0686	1.1154	2.8339	0.5301	1.0742	1.2887						
2023	12.3114	45.4478	53.0786	0.1144	1.4498	1.9919	3.4417	0.3920	1.8990	2.2910						
Maximum	12.3114	45.4478	53.0786	0.1144	2.0686	1.9919	3.4417	0.5301	1.8990	2.2910						

	ROG	NOx	CO	SO2	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	8.50	0.00	4.95	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	1.4603	4.0000e-004	0.0439	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004							
Energy	0.0200	0.1821	0.1530	1.0900e-003		0.0138	0.0138		0.0138	0.0138							
Mobile	1.5295	7.3596	22.0351	0.0959	9.3200	0.0703	9.3903	2.4929	0.0653	2.5582							
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724							
Total	3.5022	8.9181	23.4872	0.0994	9.3200	0.1567	9.4767	2.4929	0.1517	2.6446							

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	1.4603	4.0000e-004	0.0439	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004							
Energy	0.0182	0.1658	0.1393	9.9000e-004		0.0126	0.0126		0.0126	0.0126							
Mobile	1.5295	7.3596	22.0351	0.0959	9.3200	0.0703	9.3903	2.4929	0.0653	2.5582							
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724							
Total	3.5004	8.9018	23.4735	0.0993	9.3200	0.1555	9.4755	2.4929	0.1505	2.6434							

	ROG	NOx	CO	SO2	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	0.05	0.18	0.06	0.10	0.00	0.79	0.01	0.00	0.82	0.05	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	Demolition	Demolition	6/1/2022	6/25/2022	5	18	
2	Grading	Grading	6/26/2022	8/24/2022	5	43	
3	Building Foundation	Building Construction	8/25/2022	10/5/2022	5	30	
4	Building Construction	Building Construction	10/6/2022	7/31/2023	5	213	
5	Architectural Coating	Architectural Coating	4/1/2023	7/31/2023	5	86	
6	Paving	Paving	4/12/2023	7/31/2023	5	79	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 97,779; Non-Residential Outdoor: 32,593; Striped Parking Area: 0

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	2	8.00	78	0.48
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Pumps	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Pumps	1	8.00	84	0.74
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Foundation	Air Compressors	1	8.00	78	0.48
Building Foundation	Cement and Mortar Mixers	1	8.00	9	0.56
Building Foundation	Concrete/Industrial Saws	1	8.00	81	0.73
Building Foundation	Cranes	0	7.00	231	0.29
Building Foundation	Forklifts	0	8.00	89	0.20
Building Foundation	Generator Sets	0	8.00	84	0.74
Building Foundation	Plate Compactors	1	8.00	8	0.43
Building Foundation	Pumps	1	8.00	84	0.74
Building Foundation	Rubber Tired Loaders	1	8.00	203	0.36
Building Foundation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Foundation	Welders	1	8.00	46	0.45
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Surfacing Equipment	1	8.00	263	0.30
Paving	Trenchers	1	8.00	78	0.50

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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		7	20.00	15.00	0.00	14.70	75.00	20.00	LD_Mix	HHDT
Grading		6	20.00	25.00	0.00	14.70	75.00	20.00	LD_Mix	HHDT
Building Foundation		8	35.00	8.00	0.00	14.70	13.80	20.00	LD_Mix	HHDT
Building Construction		13	55.00	14.00	0.00	14.70	13.80	20.00	LD_Mix	HDT_Mix
Architectural Coating		1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix
Paving		11	40.00	12.00	0.00	14.70	13.80	20.00	LD_Mix	HDT_Mix

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					
Fugitive Dust					0.0555	0.0000	0.0555	8.4000e-003	0.0000	8.4000e-003						
Off-Road	1.9799	15.7797	21.3905	0.0353		0.8500	0.8500		0.8359	0.8359						
Total	1.9799	15.7797	21.3905	0.0353	0.0555	0.8500	0.9054	8.4000e-003	0.8359	0.8443						

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						
Vendor	0.3494	10.0955	2.7993	0.0382	0.9816	0.0383	1.0199	0.2689	0.0366	0.3055						
Worker	0.0868	0.0542	0.6275	2.0100e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608						
Total	0.4361	10.1497	3.4268	0.0402	1.2051	0.0399	1.2451	0.3282	0.0381	0.3663						

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					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003						

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Off-Road	1.9799	15.7797	21.3905	0.0353		0.8500	0.8500		0.8359	0.8359							
Total	1.9799	15.7797	21.3905	0.0353	0.0216	0.8500	0.8716	3.2700e-003	0.8359	0.8392							

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						
Vendor	0.3494	10.0955	2.7993	0.0382	0.9816	0.0383	1.0199	0.2689	0.0366	0.3055						
Worker	0.0868	0.0542	0.6275	2.0100e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608						
Total	0.4361	10.1497	3.4268	0.0402	1.2051	0.0399	1.2451	0.3282	0.0381	0.3663						

3.3 Grading - 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					
Fugitive Dust					0.5360	0.0000	0.5360	0.0581	0.0000	0.0581						
Off-Road	1.5917	16.4299	14.3383	0.0304		0.6999	0.6999		0.6563	0.6563						
Total	1.5917	16.4299	14.3383	0.0304	0.5360	0.6999	1.2359	0.0581	0.6563	0.7144						

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						
Vendor	0.5823	16.8259	4.6655	0.0636	1.6360	0.0638	1.6998	0.4482	0.0611	0.5092						
Worker	0.0868	0.0542	0.6275	2.0100e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608						
Total	0.6690	16.8800	5.2929	0.0656	1.8595	0.0654	1.9250	0.5074	0.0626	0.5700						

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
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Category	lb/day										lb/day					
Fugitive Dust					0.2091	0.0000	0.2091	0.0227	0.0000	0.0227						
Off-Road	1.5917	16.4299	14.3383	0.0304		0.6999	0.6999		0.6563	0.6563						
Total	1.5917	16.4299	14.3383	0.0304	0.2091	0.6999	0.9089	0.0227	0.6563	0.6790						

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						
Vendor	0.5823	16.8259	4.6655	0.0636	1.6360	0.0638	1.6998	0.4482	0.0611	0.5092						
Worker	0.0868	0.0542	0.6275	2.0100e-003	0.2236	1.6100e-003	0.2252	0.0593	1.4800e-003	0.0608						
Total	0.6690	16.8800	5.2929	0.0656	1.8595	0.0654	1.9250	0.5074	0.0626	0.5700						

3.4 Building Foundation - 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	1.8140	14.4310	15.7986	0.0299		0.6944	0.6944		0.6790	0.6790						
Total	1.8140	14.4310	15.7986	0.0299		0.6944	0.6944		0.6790	0.6790						

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						
Vendor	0.0450	1.5538	0.3679	4.3300e-003	0.0965	4.0100e-003	0.1005	0.0264	3.8400e-003	0.0303						
Worker	0.1518	0.0948	1.0981	3.5100e-003	0.3912	2.8100e-003	0.3940	0.1038	2.5900e-003	0.1063						
Total	0.1968	1.6485	1.4660	7.8400e-003	0.4877	6.8200e-003	0.4945	0.1302	6.4300e-003	0.1366						

Mitigated Construction On-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8140	14.4310	15.7986	0.0299		0.6944	0.6944		0.6790	0.6790						
Total	1.8140	14.4310	15.7986	0.0299		0.6944	0.6944		0.6790	0.6790						

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						
Vendor	0.0450	1.5538	0.3679	4.3300e-003	0.0965	4.0100e-003	0.1005	0.0264	3.8400e-003	0.0303						
Worker	0.1518	0.0948	1.0981	3.5100e-003	0.3912	2.8100e-003	0.3940	0.1038	2.5900e-003	0.1063						
Total	0.1968	1.6485	1.4660	7.8400e-003	0.4877	6.8200e-003	0.4945	0.1302	6.4300e-003	0.1366						

3.5 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	2.6895	24.0248	25.5399	0.0478		1.1063	1.1063		1.0657	1.0657						
Total	2.6895	24.0248	25.5399	0.0478		1.1063	1.1063		1.0657	1.0657						

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						
Vendor	0.0595	1.7624	0.4882	6.1600e-003	0.1788	4.6200e-003	0.1834	0.0514	4.4200e-003	0.0559						
Worker	0.2386	0.1489	1.7256	5.5200e-003	0.6148	4.4200e-003	0.6192	0.1630	4.0700e-003	0.1671						
Total	0.2981	1.9113	2.2138	0.0117	0.7936	9.0400e-003	0.8026	0.2145	8.4900e-003	0.2230						

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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	2.6895	24.0248	25.5399	0.0478		1.1063	1.1063		1.0657	1.0657							
Total	2.6895	24.0248	25.5399	0.0478		1.1063	1.1063		1.0657	1.0657							

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							
Vendor	0.0595	1.7624	0.4882	6.1600e-003	0.1788	4.6200e-003	0.1834	0.0514	4.4200e-003	0.0559							
Worker	0.2386	0.1489	1.7256	5.5200e-003	0.6148	4.4200e-003	0.6192	0.1630	4.0700e-003	0.1671							
Total	0.2981	1.9113	2.2138	0.0117	0.7936	9.0400e-003	0.8026	0.2145	8.4900e-003	0.2230							

3.5 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	2.5088	22.1632	25.4022	0.0478		0.9681	0.9681		0.9324	0.9324							
Total	2.5088	22.1632	25.4022	0.0478		0.9681	0.9681		0.9324	0.9324							

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							
Vendor	0.0435	1.2280	0.4359	5.9700e-003	0.1788	2.1000e-003	0.1809	0.0514	2.0100e-003	0.0534							

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Worker	0.2250	0.1347	1.5905	5.3200e-003	0.6148	4.3000e-003	0.6191	0.1630	3.9600e-003	0.1670						
Total	0.2685	1.3627	2.0263	0.0113	0.7936	6.4000e-003	0.8000	0.2145	5.9700e-003	0.2204						

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	2.5088	22.1632	25.4022	0.0478		0.9681	0.9681		0.9324	0.9324						
Total	2.5088	22.1632	25.4022	0.0478		0.9681	0.9681		0.9324	0.9324						

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						
Vendor	0.0435	1.2280	0.4359	5.9700e-003	0.1788	2.1000e-003	0.1809	0.0514	2.0100e-003	0.0534						
Worker	0.2250	0.1347	1.5905	5.3200e-003	0.6148	4.3000e-003	0.6191	0.1630	3.9600e-003	0.1670						
Total	0.2685	1.3627	2.0263	0.0113	0.7936	6.4000e-003	0.8000	0.2145	5.9700e-003	0.2204						

3.6 Architectural Coating - 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					
Archit. Coating	7.0264					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708						
Total	7.2181	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708						

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					

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Hauling	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						
Worker	0.0205	0.0123	0.1446	4.8000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152						
Total	0.0205	0.0123	0.1446	4.8000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152						

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					
Archit. Coating	7.0284					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708						
Total	7.2181	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708						

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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0205	0.0123	0.1446	4.8000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152						
Total	0.0205	0.0123	0.1446	4.8000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152						

3.7 Paving - 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	2.0947	19.4561	22.1641	0.0429		0.9412	0.9412		0.8849	0.8849						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	2.0947	19.4561	22.1641	0.0429		0.9412	0.9412		0.8849	0.8849						

Unmitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0373	1.0526	0.3736	5.1200e-003	0.1533	1.8000e-003	0.1551	0.0441	1.7200e-003	0.0458						
Worker	0.1636	0.0980	1.1567	3.8700e-003	0.4471	3.1300e-003	0.4502	0.1186	2.8800e-003	0.1215						
Total	0.2009	1.1505	1.5303	8.9900e-003	0.6004	4.9300e-003	0.6053	0.1627	4.6000e-003	0.1673						

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	2.0947	19.4561	22.1641	0.0429		0.9412	0.9412		0.8849	0.8849						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	2.0947	19.4561	22.1641	0.0429		0.9412	0.9412		0.8849	0.8849						

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						
Vendor	0.0373	1.0526	0.3736	5.1200e-003	0.1533	1.8000e-003	0.1551	0.0441	1.7200e-003	0.0458						
Worker	0.1636	0.0980	1.1567	3.8700e-003	0.4471	3.1300e-003	0.4502	0.1186	2.8800e-003	0.1215						
Total	0.2009	1.1505	1.5303	8.9900e-003	0.6004	4.9300e-003	0.6053	0.1627	4.6000e-003	0.1673						

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	1.5295	7.3596	22.0351	0.0959	9.3200	0.0703	9.3903	2.4929	0.0653	2.5582						

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Unmitigated	1.5295	7.3596	22.0351	0.0959	9.3200	0.0703	9.3903	2.4929	0.0653	2.5582									
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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	0.00	0.00	0.00		
User Defined Educational	1,010.00	0.00	0.00	3,132,818	3,132,818
Total	1,010.00	0.00	0.00	3,132,818	3,132,818

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
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Educational	0.00	11.93	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
User Defined Educational	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24
Install High Efficiency Lighting

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
NaturalGas Mitigated	0.0182	0.1658	0.1393	9.9000e-004		0.0126	0.0126		0.0126	0.0126						
NaturalGas Unmitigated	0.0200	0.1821	0.1530	1.0900e-003		0.0138	0.0138		0.0138	0.0138						

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Elementary School	1857.35	0.0200	0.1821	0.1530	1.0900e-003		0.0138	0.0138		0.0138	0.0138						
User Defined Educational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						

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Total		0.0200	0.1821	0.1530	1.0900e-003		0.0138	0.0138		0.0138	0.0138							
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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					
Elementary School	1.69091	0.0182	0.1658	0.1393	9.9000e-004		0.0126	0.0126		0.0126	0.0126						
User Defined Educational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Total		0.0182	0.1658	0.1393	9.9000e-004		0.0126	0.0126		0.0126	0.0126						

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	1.4603	4.0000e-004	0.0439	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						
Unmitigated	1.4603	4.0000e-004	0.0439	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-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	0.1656					0.0000	0.0000		0.0000	0.0000						
Consumer Products	1.2907					0.0000	0.0000		0.0000	0.0000						
Landscaping	4.0400e-003	4.0000e-004	0.0439	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						
Total	1.4603	4.0000e-004	0.0439	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						

Mitigated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1656					0.0000	0.0000		0.0000	0.0000						
Consumer Products	1.2907					0.0000	0.0000		0.0000	0.0000						
Landscaping	4.0400e-003	4.0000e-004	0.0439	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						
Total	1.4603	4.0000e-004	0.0439	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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
Emergency Generator	1	1	12	300	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (200,000 HP)	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724						
Total	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724						

11.0 Vegetation

Mirman School - Construction (Onsite) - South Coast Air Basin, Winter

Mirman School - Construction (Onsite)
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	430.00	Student	5.46	65,186.00	0
User Defined Educational	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year	2025		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	616	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP Year 2025 Carbon Intensity = 616 lbs/MWh
 Land Use - Square footage includes new construction.
 User Defined Educational land uses represent mobile source emissions (VMT Calculator)
 Construction Phase - see construction assumptions
 Off-road Equipment - 0
 Off-road Equipment - see construction assumptions
 Off-road Equipment - see construction assumptions
 Off-road Equipment - see construction assumptions
 Off-road Equipment - see construction assumptions
 Off-road Equipment - see construction assumptions
 Trips and VMT - Haul trucks are included as part of vendor trips. Vendor vehicle class adjusted to HHDT.
 Demolition -
 Grading -
 Architectural Coating -
 Vehicle Trips - Edited based on VMT Calculator Data
 Consumer Products -
 Area Coating -
 Energy Use -
 Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403
 Energy Mitigation - Assumes 10% reduction for compliance with 2019 Title 24
 Water Mitigation - Compliance with City of LA Green Building Code (20% Reduction in Water Usage)
 Waste Mitigation - Existing waste diversion rate for City of Los Angeles of 76.4%
 Fleet Mix -
 Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	86.00

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tblConstructionPhase	NumDays	230.00	30.00
tblConstructionPhase	NumDays	230.00	213.00
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	79.00
tblGrading	MaterialExported	0.00	2,200.00
tblLandUse	LandUseSquareFeet	35,949.45	65,186.00
tblLandUse	LotAcreage	0.83	5.46
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	616
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
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tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripNumber	5.00	0.00
tblTripsAndVMT	HaulingTripNumber	275.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	11.00	8.00
tblTripsAndVMT	VendorTripNumber	11.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT

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tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	27.00	35.00
tblTripsAndVMT	WorkerTripNumber	27.00	55.00
tblTripsAndVMT	WorkerTripNumber	28.00	40.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	11.93
tblVehicleTrips	CC_TTP	30.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	65.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PR_TP	63.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	1.29	0.00
tblVehicleTrips	WD_TR	0.00	1,010.00

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					
2022	2.7551	24.8148	25.9446	0.0486	0.5368	1.1070	1.2377	0.0584	1.0663	1.0667						
2023	11.9273	44.2099	50.0385	0.0951	1.6600e-003	1.9811	1.9828	6.6000e-004	1.8890	1.8897						
Maximum	11.9273	44.2099	50.0385	0.0951	0.5368	1.9811	1.9828	0.0584	1.8890	1.8897						

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
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Construction Onsite

Year	lb/day										lb/day					
2022	2.7551	24.8148	25.9446	0.0486	0.2098	1.1070	1.1079	0.0229	1.0663	1.0667						
2023	11.9273	44.2099	50.0385	0.0951	1.6600e-003	1.9811	1.9828	6.6000e-004	1.8890	1.8897						
Maximum	11.9273	44.2099	50.0385	0.0951	0.2098	1.9811	1.9828	0.0229	1.8890	1.8897						

	ROG	NOx	CO	SO2	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	60.73	0.00	4.03	60.04	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	Demolition	Demolition	6/1/2022	6/25/2022	5	18	
2	Grading	Grading	6/26/2022	8/24/2022	5	43	
3	Building Foundation	Building Construction	8/25/2022	10/5/2022	5	30	
4	Building Construction	Building Construction	10/6/2022	7/31/2023	5	213	
5	Architectural Coating	Architectural Coating	4/1/2023	7/31/2023	5	86	
6	Paving	Paving	4/12/2023	7/31/2023	5	79	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 97,779; Non-Residential Outdoor: 32,593; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	2	8.00	78	0.48
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Pumps	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Pumps	1	8.00	84	0.74
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Foundation	Air Compressors	1	8.00	78	0.48
Building Foundation	Cement and Mortar Mixers	1	8.00	9	0.56
Building Foundation	Concrete/Industrial Saws	1	8.00	81	0.73
Building Foundation	Cranes	0	7.00	231	0.29
Building Foundation	Forklifts	0	8.00	89	0.20

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Building Foundation	Generator Sets	0	8.00	84	0.74
Building Foundation	Plate Compactors	1	8.00	8	0.43
Building Foundation	Pumps	1	8.00	84	0.74
Building Foundation	Rubber Tired Loaders	1	8.00	203	0.36
Building Foundation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Foundation	Welders	1	8.00	46	0.45
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Surfacing Equipment	1	8.00	263	0.30
Paving	Trenchers	1	8.00	78	0.50

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	7	20.00	15.00	0.00	0.00	0.00	0.00	LD_Mix	HHDT	HHDT
Grading	6	20.00	25.00	0.00	0.00	0.00	0.00	LD_Mix	HHDT	HHDT
Building Foundation	8	35.00	8.00	0.00	0.00	0.00	0.00	LD_Mix	HHDT	HHDT
Building Construction	13	55.00	14.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Paving	11	40.00	12.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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
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Mirman School
Construction Onsite

Category	lb/day										lb/day					
Fugitive Dust					0.0555	0.0000	0.0555	8.4000e-003	0.0000	8.4000e-003						
Off-Road	1.9799	15.7797	21.3905	0.0353		0.8500	0.8500		0.8359	0.8359						
Total	1.9799	15.7797	21.3905	0.0353	0.0555	0.8500	0.9054	8.4000e-003	0.8359	0.8443						

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						
Vendor	0.0245	1.2938	0.2142	1.3300e-003	3.2000e-004	5.9000e-004	9.0000e-004	1.1000e-004	5.6000e-004	6.8000e-004						
Worker	0.0172	4.8200e-003	0.0754	4.0000e-005	2.0000e-004	1.2000e-004	3.2000e-004	8.0000e-005	1.1000e-004	1.9000e-004						
Total	0.0418	1.2986	0.2896	1.3700e-003	5.2000e-004	7.1000e-004	1.2200e-003	1.9000e-004	6.7000e-004	8.7000e-004						

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					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003						
Off-Road	1.9799	15.7797	21.3905	0.0353		0.8500	0.8500		0.8359	0.8359						
Total	1.9799	15.7797	21.3905	0.0353	0.0216	0.8500	0.8716	3.2700e-003	0.8359	0.8392						

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						
Vendor	0.0245	1.2938	0.2142	1.3300e-003	3.2000e-004	5.9000e-004	9.0000e-004	1.1000e-004	5.6000e-004	6.8000e-004						
Worker	0.0172	4.8200e-003	0.0754	4.0000e-005	2.0000e-004	1.2000e-004	3.2000e-004	8.0000e-005	1.1000e-004	1.9000e-004						
Total	0.0418	1.2986	0.2896	1.3700e-003	5.2000e-004	7.1000e-004	1.2200e-003	1.9000e-004	6.7000e-004	8.7000e-004						

3.3 Grading - 2022

Unmitigated Construction On-Site

Mirman School
Construction Onsite

	ROG	NOx	CO	SO2	Fugitive 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					0.5360	0.0000	0.5360	0.0581	0.0000	0.0581						
Off-Road	1.5917	16.4299	14.3383	0.0304		0.6999	0.6999		0.6563	0.6563						
Total	1.5917	16.4299	14.3383	0.0304	0.5360	0.6999	1.2359	0.0581	0.6563	0.7144						

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						
Vendor	0.0409	2.1563	0.3570	2.2200e-003	5.3000e-004	9.8000e-004	1.5100e-003	1.9000e-004	9.4000e-004	1.1300e-003						
Worker	0.0172	4.8200e-003	0.0754	4.0000e-005	2.0000e-004	1.2000e-004	3.2000e-004	8.0000e-005	1.1000e-004	1.9000e-004						
Total	0.0581	2.1611	0.4324	2.2600e-003	7.3000e-004	1.1000e-003	1.8300e-003	2.7000e-004	1.0500e-003	1.3200e-003						

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					0.2091	0.0000	0.2091	0.0227	0.0000	0.0227						
Off-Road	1.5917	16.4299	14.3383	0.0304		0.6999	0.6999		0.6563	0.6563						
Total	1.5917	16.4299	14.3383	0.0304	0.2091	0.6999	0.9089	0.0227	0.6563	0.6790						

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						
Vendor	0.0409	2.1563	0.3570	2.2200e-003	5.3000e-004	9.8000e-004	1.5100e-003	1.9000e-004	9.4000e-004	1.1300e-003						
Worker	0.0172	4.8200e-003	0.0754	4.0000e-005	2.0000e-004	1.2000e-004	3.2000e-004	8.0000e-005	1.1000e-004	1.9000e-004						
Total	0.0581	2.1611	0.4324	2.2600e-003	7.3000e-004	1.1000e-003	1.8300e-003	2.7000e-004	1.0500e-003	1.3200e-003						

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Construction Onsite

3.4 Building Foundation - 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	1.8140	14.4310	15.7986	0.0299		0.6944	0.6944		0.6790	0.6790							
Total	1.8140	14.4310	15.7986	0.0299		0.6944	0.6944		0.6790	0.6790							

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							
Vendor	0.0131	0.6900	0.1142	7.1000e-004	1.7000e-004	3.1000e-004	4.8000e-004	6.0000e-005	3.0000e-004	3.6000e-004							
Worker	0.0302	8.4400e-003	0.1320	8.0000e-005	3.5000e-004	2.2000e-004	5.6000e-004	1.4000e-004	2.0000e-004	3.4000e-004							
Total	0.0433	0.6985	0.2462	7.9000e-004	5.2000e-004	5.3000e-004	1.0400e-003	2.0000e-004	5.0000e-004	7.0000e-004							

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	1.8140	14.4310	15.7986	0.0299		0.6944	0.6944		0.6790	0.6790							
Total	1.8140	14.4310	15.7986	0.0299		0.6944	0.6944		0.6790	0.6790							

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							
Vendor	0.0131	0.6900	0.1142	7.1000e-004	1.7000e-004	3.1000e-004	4.8000e-004	6.0000e-005	3.0000e-004	3.6000e-004							

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Worker	0.0302	8.4400e-003	0.1320	8.0000e-005	3.5000e-004	2.2000e-004	5.6000e-004	1.4000e-004	2.0000e-004	3.4000e-004						
Total	0.0433	0.6985	0.2462	7.9000e-004	5.2000e-004	5.3000e-004	1.0400e-003	2.0000e-004	5.0000e-004	7.0000e-004						

3.5 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	2.6895	24.0248	25.5399	0.0478		1.1063	1.1063		1.0657	1.0657						
Total	2.6895	24.0248	25.5399	0.0478		1.1063	1.1063		1.0657	1.0657						

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						
Vendor	0.0182	0.7768	0.1973	6.7000e-004	3.7000e-004	3.0000e-004	6.7000e-004	1.4000e-004	2.9000e-004	4.3000e-004						
Worker	0.0474	0.0133	0.2074	1.2000e-004	5.4000e-004	3.4000e-004	8.8000e-004	2.2000e-004	3.1000e-004	5.3000e-004						
Total	0.0656	0.7900	0.4047	7.9000e-004	9.1000e-004	6.4000e-004	1.5500e-003	3.6000e-004	6.0000e-004	9.6000e-004						

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	2.6895	24.0248	25.5399	0.0478		1.1063	1.1063		1.0657	1.0657						
Total	2.6895	24.0248	25.5399	0.0478		1.1063	1.1063		1.0657	1.0657						

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					

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Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0182	0.7768	0.1973	6.7000e-004	3.7000e-004	3.0000e-004	6.7000e-004	1.4000e-004	2.9000e-004	4.3000e-004						
Worker	0.0474	0.0133	0.2074	1.2000e-004	5.4000e-004	3.4000e-004	8.8000e-004	2.2000e-004	3.1000e-004	5.3000e-004						
Total	0.0656	0.7900	0.4047	7.9000e-004	9.1000e-004	6.4000e-004	1.5500e-003	3.6000e-004	6.0000e-004	9.6000e-004						

3.5 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	2.5088	22.1632	25.4022	0.0478		0.9681	0.9681		0.9324	0.9324						
Total	2.5088	22.1632	25.4022	0.0478		0.9681	0.9681		0.9324	0.9324						

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						
Vendor	0.0142	0.6818	0.1721	6.4000e-004	3.7000e-004	2.1000e-004	5.8000e-004	1.4000e-004	2.0000e-004	3.4000e-004						
Worker	0.0436	0.0118	0.1879	1.2000e-004	5.4000e-004	3.3000e-004	8.8000e-004	2.2000e-004	3.1000e-004	5.2000e-004						
Total	0.0578	0.6935	0.3599	7.6000e-004	9.1000e-004	5.4000e-004	1.4600e-003	3.6000e-004	5.1000e-004	8.6000e-004						

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	2.5088	22.1632	25.4022	0.0478		0.9681	0.9681		0.9324	0.9324						
Total	2.5088	22.1632	25.4022	0.0478		0.9681	0.9681		0.9324	0.9324						

Mitigated Construction Off-Site

Mirman School
Construction Onsite

	ROG	NOx	CO	SO2	Fugitive 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						
Vendor	0.0142	0.6818	0.1721	6.4000e-004	3.7000e-004	2.1000e-004	5.8000e-004	1.4000e-004	2.0000e-004	3.4000e-004						
Worker	0.0436	0.0118	0.1879	1.2000e-004	5.4000e-004	3.3000e-004	8.8000e-004	2.2000e-004	3.1000e-004	5.2000e-004						
Total	0.0578	0.6935	0.3599	7.6000e-004	9.1000e-004	5.4000e-004	1.4600e-003	3.6000e-004	5.1000e-004	8.6000e-004						

3.6 Architectural Coating - 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					
Archit. Coating	7.0264					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708						
Total	7.2181	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708						

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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	3.9700e-003	1.0700e-003	0.0171	1.0000e-005	5.0000e-005	3.0000e-005	8.0000e-005	2.0000e-005	3.0000e-005	5.0000e-005						
Total	3.9700e-003	1.0700e-003	0.0171	1.0000e-005	5.0000e-005	3.0000e-005	8.0000e-005	2.0000e-005	3.0000e-005	5.0000e-005						

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					
Archit. Coating	7.0264					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708						
Total	7.2181	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708						

Mirman School
Construction Onsite

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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	3.9700e-003	1.0700e-003	0.0171	1.0000e-005	5.0000e-005	3.0000e-005	8.0000e-005	2.0000e-005	3.0000e-005	5.0000e-005						
Total	3.9700e-003	1.0700e-003	0.0171	1.0000e-005	5.0000e-005	3.0000e-005	8.0000e-005	2.0000e-005	3.0000e-005	5.0000e-005						

3.7 Paving - 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	2.0947	19.4561	22.1641	0.0429		0.9412	0.9412		0.8849	0.8849						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	2.0947	19.4561	22.1641	0.0429		0.9412	0.9412		0.8849	0.8849						

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						
Vendor	0.0122	0.5844	0.1475	5.5000e-004	3.1000e-004	1.8000e-004	4.9000e-004	1.2000e-004	1.7000e-004	2.9000e-004						
Worker	0.0317	8.5600e-003	0.1366	8.0000e-005	3.9000e-004	2.4000e-004	6.4000e-004	1.6000e-004	2.2000e-004	3.8000e-004						
Total	0.0439	0.5929	0.2841	6.3000e-004	7.0000e-004	4.2000e-004	1.1300e-003	2.8000e-004	3.9000e-004	6.7000e-004						

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	2.0947	19.4561	22.1641	0.0429		0.9412	0.9412		0.8849	0.8849						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						

Mirman School
Construction Onsite

Total	2.0947	19.4561	22.1641	0.0429		0.9412	0.9412		0.8849	0.8849						
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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						
Vendor	0.0122	0.5844	0.1475	5.5000e-004	3.1000e-004	1.8000e-004	4.9000e-004	1.2000e-004	1.7000e-004	2.9000e-004						
Worker	0.0317	8.5600e-003	0.1366	8.0000e-005	3.9000e-004	2.4000e-004	6.4000e-004	1.6000e-004	2.2000e-004	3.8000e-004						
Total	0.0439	0.5929	0.2841	6.3000e-004	7.0000e-004	4.2000e-004	1.1300e-003	2.8000e-004	3.9000e-004	6.7000e-004						

Mirman School

MND

Appendix 2.2

Greenhouse Gas Emissions Worksheets and Modeling Output Files

- Appendix 2.2: Greenhouse Gas Emissions
 - GHG Parameters and Summary
 - Baseline (Buildout)
 - Buildout without PDFs
 - Buildout with PDFs

Mirman School

Operational Emissions Summary (GHG)

CalEEMod Output Summary	Project with no PDFs	Project with PDFs
Baseline (Buildout Year)^a	CO₂e	CO₂e
Area	0	0
Energy (Natural Gas)	90	90
Mobile	899	899
Emergency Generators	0	0
Solid Waste	7	7
Water/Wastewater	10	10
Total	1,007	1,007
Buildout (Buildout Year)^b		
Area	0	0
Energy (Natural Gas)	138	126
Mobile	1,170	1,170
Emergency Generators	1	1
Solid Waste	9	9
Water/Wastewater	11	11
Construction	35	35
Total	1,365	1,354

^a Existing Uses

^b Please refer to CalEEMod outputs for Future uses

Mirman School

LADOT VMT Calculator Data

VMT Summary

	Existing	Proposed Project	With Mitigation	Project Weekday Trips	Weekend Trips	Weekend Vs. Weekday Ratio
Daily Trips	776	1,010	1,010	1	0	0.00
Daily VMT	9,254	12,046	12,046	2,792		
Pass-by trips	0	0				

Project without TDM (MXD Data)

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT
Home Based Work Production	0	0.0%	0	12.4	0	0
Home Based Other Production	0	0.0%	0	11.1	0	0
Non-Home Based Other Production	82	-3.7%	79	13.0	1066	1027
Home-Based Work Attraction	98	-2.0%	96	11.8	1156	1133
Home-Based Other Attraction	805	-6.1%	756	12.0	9,660	9072
Non-Home Based Other Attraction	82	-3.7%	79	10.3	845	814
Total	1,067				12,727	

Project with TDM (MXD Data)

	Proposed Project			Project with Mitigation Measures		
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT
Home Based Work Production	0.0%	0	0	0.0%	0	0
Home Based Other Production	0.0%	0	0	0.0%	0	0
Non-Home Based Other Production	0.0%	79	1027	0.0%	79	1027
Home-Based Work Attraction	0.0%	96	1133	0.0%	96	1133
Home-Based Other Attraction	0.0%	756	9072	0.0%	756	9072
Non-Home Based Other Attraction	0.0%	79	814	0.0%	79	814
Total		1,010	12,046		1,010	12,046
Residential VMT			0			0

Source: Gibson Transportation

GHG SOURCE CALCULATIONS:

APPLICABLE GHG REDUCTION MEASURES Included within CalEEMod

Energy Reduction Measures Included in CalEEMod Run:

High Efficiency Lighting (25%)
Title 24 (Above 10%) = Equivalent to 2019 Title 24

Water Reduction Measures Included in CalEEMod Run:

20 Percent Reduction Beyond Code Requirements

Waste Diversion Rate Reduction Measures Included in CalEEMod Run:

-Project assumes a 76.4% Diversion Rate (Los Angeles, 2011)

Mirman School - Existing Operations (Buildout Year) - South Coast Air Basin, Annual

Mirman School - Existing Operations (Buildout Year)
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	330.00	Student	5.46	42,678.00	0
User Defined Educational	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year	2025		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	616	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - LADWP Year 2025 Carbon Intensity = 616 lbs/MWh
- Land Use - User Defined Educational land uses represent mobile source emissions (VMT Calculator)
- Construction Phase - see construction assumptions
- Off-road Equipment - 0
- Off-road Equipment - see construction assumptions
- Off-road Equipment - see construction assumptions
- Off-road Equipment - see construction assumptions
- Off-road Equipment - see construction assumptions
- Off-road Equipment - see construction assumptions
- Trips and VMT - Haul trucks are included as part of vendor trips. Vendor vehicle class adjusted to HHDT.
- Demolition -
- Grading -
- Vehicle Trips - Edited based on VMT Calculator Data
- Area Coating -
- Energy Use -
- Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403
- Energy Mitigation - Assumes 10% reduction for compliance with 2019 Title 24
- Water Mitigation - Compliance with City of LA Green Building Code (20% Reduction in Water Usage)
- Waste Mitigation - Existing waste diversion rate for City of Los Angeles of 76.4%
- Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	21,339.00	18,601.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	64,017.00	55,803.00
tblAreaCoating	Area_Nonresidential_Exterior	21339	18601
tblAreaCoating	Area_Nonresidential_Interior	64017	55803

Mirman School
Existing - Annual

tblLandUse	LandUseSquareFeet	27,589.11	42,678.00
tblLandUse	LotAcreage	0.63	5.46
tblProjectCharacteristics	CO2IntensityFactor	1227.89	616
tblTripsAndVMT	HaulingTripNumber	12.00	0.00
tblTripsAndVMT	VendorTripNumber	7.00	6.00
tblTripsAndVMT	VendorTripNumber	7.00	6.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	4.00	3.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	11.93
tblVehicleTrips	CC_TTP	30.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	65.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PR_TP	63.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	1.29	0.00
tblVehicleTrips	WD_TR	0.00	776.00

2.0 Emissions Summary

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																	8.7500e-003
Energy																	94.7091
Mobile																	898.8875
Waste																	30.2898
Water																	10.4234
Total																	1,034.3184

Mitigated Operational

Mirman School
Existing - Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																8.7500e-003
Energy																90.4905
Mobile																898.8875
Waste																7.1484
Water																10.4234
Total																1,006.9585

	ROG	NOx	CO	SO2	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	2.65

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	tons/yr										MT/yr					
Mitigated																898.8875
Unmitigated																898.8875

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Elementary School	0.00	0.00	0.00		
User Defined Educational	776.00	0.00	0.00	2,406,040	2,406,040
Total	776.00	0.00	0.00	2,406,040	2,406,040

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
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Educational	0.00	11.93	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH

Mirman School
Existing - Annual

Elementary School	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
User Defined Educational	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated																68.7993
Electricity Unmitigated																70.8827
NaturalGas Mitigated																21.6911
NaturalGas Unmitigated																23.8263

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	443851																23.8263
User Defined Educational	0																0.0000
Total																	23.8263

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	404075																21.6911
User Defined Educational	0																0.0000
Total																	21.6911

5.3 Energy by Land Use - Electricity

Unmitigated

Mirman School
Existing - Annual

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	252654				70.8827
User Defined Educational	0				0.0000
Total					70.8827

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	245228				68.7993
User Defined Educational	0				0.0000
Total					68.7993

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																8.7500e-003
Unmitigated																8.7500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating																0.0000
Consumer Products																0.0000

Mirman School
Existing - Annual

Landscaping																		8.7500e-003	
Total																			8.7500e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	8.7500e-003
Total																	8.7500e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				10.4234
Unmitigated				10.4234

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	0.7999997 2.05714				10.4234
User Defined Educational	0 / 0				0.0000
Total					10.4234

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	0.799999 / 2.05714				10.4234
User Defined Educational	0 / 0				0.0000
Total					10.4234

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				7.1484
Unmitigated				30.2898

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	60.23				30.2898
User Defined Educational	0				0.0000
Total					30.2898

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	14.2143				7.1484
User Defined Educational	0				0.0000
Total					7.1484

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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Mirman School - Construction and Operations (No PDFs) - South Coast Air Basin, Annual

Mirman School - Construction and Operations (No PDFs)
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	430.00	Student	5.46	65,186.00	0
User Defined Educational	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year	2025		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	616	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP Year 2025 Carbon Intensity = 616 lbs/MWh

Land Use - Square footage includes new construction.

User Defined Educational land uses represent mobile source emissions (VMT Calculator)

Construction Phase - see construction assumptions

Off-road Equipment - 0

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Trips and VMT - Haul trucks are included as part of vendor trips. Vendor vehicle class adjusted to HHDT.

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Edited based on VMT Calculator Data

Consumer Products -

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403

Energy Mitigation - Assumes 10% reduction for compliance with 2019 Title 24

Water Mitigation - Compliance with City of LA Green Building Code (20% Reduction in Water Usage)

Waste Mitigation - Existing waste diversion rate for City of Los Angeles of 76.4%

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	18.00

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Project Operations (without PDFs) - Annual

tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	230.00	30.00
tblConstructionPhase	NumDays	230.00	213.00
tblConstructionPhase	NumDays	20.00	86.00
tblConstructionPhase	NumDays	20.00	79.00
tblGrading	MaterialExported	0.00	2,200.00
tblLandUse	LandUseSquareFeet	35,949.45	65,186.00
tblLandUse	LotAcreage	0.83	5.46
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	616
tblTripsAndVMT	HaulingTripNumber	5.00	0.00
tblTripsAndVMT	HaulingTripNumber	275.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	75.00
tblTripsAndVMT	VendorTripLength	6.90	75.00
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	11.00	8.00
tblTripsAndVMT	VendorTripNumber	11.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	18.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	27.00	35.00
tblTripsAndVMT	WorkerTripNumber	27.00	55.00
tblTripsAndVMT	WorkerTripNumber	28.00	40.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	11.93

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tblVehicleTrips	CC_TTP	30.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	65.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PR_TP	63.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	1.29	0.00
tblVehicleTrips	WD_TR	0.00	1,010.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																0.0114
Energy																144.6578
Mobile																1,170.3879
Stationary																1.3757
Waste																33.4627
Water																13.5820
Total																1,369.4774

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																0.0114
Energy																138.2144
Mobile																1,170.3879
Stationary																1.3757

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Project Operations (without PDFs) - Annual

Waste																		9.3132
Water																		10.8656
Total																		1,330.1681

	ROG	NOx	CO	SO2	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	2.87

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	tons/yr										M1/yr					
Mitigated																1,170.3879
Unmitigated																1,170.3879

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	0.00	0.00	0.00		
User Defined Educational	1,010.00	0.00	0.00	3,132,818	3,132,818
Total	1,010.00	0.00	0.00	3,132,818	3,132,818

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
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Educational	0.00	11.93	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
User Defined Educational	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Mirman School
Project Operations (without PDFs) - Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated																105.0835
Electricity Unmitigated																108.2656
NaturalGas Mitigated																33.1309
NaturalGas Unmitigated																36.3921

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	677934																36.3921
User Defined Educational	0																0.0000
Total																	36.3921

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	617181																33.1309
User Defined Educational	0																0.0000
Total																	33.1309

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	385901				108.2656
User Defined Educational	0				0.0000

Mirman School
Project Operations (without PDFs) - Annual

Total					108.2656
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Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	374559				105.0835
User Defined Educational	0				0.0000
Total					105.0835

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated																0.0114
Unmitigated																0.0114

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating																0.0000
Consumer Products																0.0000
Landscaping																0.0114
Total																0.0114

Mitigated

Mirman School
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating																0.0000
Consumer Products																0.0000
Landscaping																0.0114
Total																0.0114

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				10.8656
Unmitigated				13.5820

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	1.04242 / 2.68052				13.5820
User Defined Educational	0 / 0				0.0000
Total					13.5820

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	0.833939 / 2.14441				10.8656
User Defined Educational	0 / 0				0.0000

Total				10.8656
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8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				9.3132
Unmitigated				39.4627

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	78.47				39.4627
User Defined Educational	0				0.0000
Total					39.4627

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	18.5189				9.3132
User Defined Educational	0				0.0000
Total					9.3132

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
Emergency Generator	1	1	12	300	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	tons/yr										MT/yr						
Emergency Generator - Diesel (300 - 300 HP)																	1.3757
Total																	1.3757

11.0 Vegetation

Mirman School - Construction and Operations - South Coast Air Basin, Annual

**Mirman School - Construction and Operations
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	430.00	Student	5.46	65,186.00	0
User Defined Educational	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11	Operational Year		2025	
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	616	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP Year 2025 Carbon Intensity = 616 lbs/MWh

Land Use - Square footage includes new construction.

User Defined Educational land uses represent mobile source emissions (VMT Calculator)

Construction Phase - see construction assumptions

Off-road Equipment - 0

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Off-road Equipment - see construction assumptions

Trips and VMT - Haul trucks are included as part of vendor trips. Vendor vehicle class adjusted to HHDT.

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Edited based on VMT Calculator Data

Consumer Products -

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403

Energy Mitigation - Assumes 10% reduction for compliance with 2019 Title 24

Water Mitigation - Compliance with City of LA Green Building Code (20% Reduction in Water Usage)

Waste Mitigation - Existing waste diversion rate for City of Los Angeles of 76.4%

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	86.00

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Project Construction and Operations - Annual

tblConstructionPhase	NumDays	230.00	30.00
tblConstructionPhase	NumDays	230.00	213.00
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	79.00
tblGrading	MaterialExported	0.00	2,200.00
tblLandUse	LandUseSquareFeet	35,949.45	65,186.00
tblLandUse	LotAcreage	0.83	5.46
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	616
tblTripsAndVMT	HaulingTripNumber	5.00	0.00
tblTripsAndVMT	HaulingTripNumber	275.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	75.00
tblTripsAndVMT	VendorTripLength	6.90	75.00
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	11.00	8.00
tblTripsAndVMT	VendorTripNumber	11.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	18.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	27.00	35.00
tblTripsAndVMT	WorkerTripNumber	27.00	55.00
tblTripsAndVMT	WorkerTripNumber	28.00	40.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	11.93

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tblVehicleTrips	CC_TTP	30.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	5.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	65.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PR_TP	63.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	1.29	0.00
tblVehicleTrips	WD_TR	0.00	1,010.00

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										M1/yr					
2022																472.1387
2023																587.7671
Maximum																587.7671

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										M1/yr					
2022																472.1384
2023																587.7666
Maximum																587.7666

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
			Highest	

2.2 Overall Operational

Mirman School
Project Construction and Operations - Annual

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																0.0114
Energy																144.6578
Mobile																1,170.3879
Stationary																1.3757
Waste																39.4627
Water																13.5820
Total																1,369.4774

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																0.0114
Energy																126.3728
Mobile																1,170.3879
Stationary																1.3757
Waste																9.3132
Water																10.8656
Total																1,318.3265

	ROG	NOx	CO	SO2	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	3.74

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/25/2022	5	18	
2	Grading	Grading	6/26/2022	8/24/2022	5	43	
3	Building Foundation	Building Construction	8/25/2022	10/5/2022	5	30	
4	Building Construction	Building Construction	10/6/2022	7/31/2023	5	213	
5	Architectural Coating	Architectural Coating	4/1/2023	7/31/2023	5	86	
6	Paving	Paving	4/12/2023	7/31/2023	5	79	

Mirman School
Project Construction and Operations - Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 97,779; Non-Residential Outdoor: 32,593; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	2	8.00	78	0.48
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Pumps	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Pumps	1	8.00	84	0.74
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Foundation	Air Compressors	1	8.00	78	0.48
Building Foundation	Cement and Mortar Mixers	1	8.00	9	0.56
Building Foundation	Concrete/Industrial Saws	1	8.00	81	0.73
Building Foundation	Cranes	0	7.00	231	0.29
Building Foundation	Forklifts	0	8.00	89	0.20
Building Foundation	Generator Sets	0	8.00	84	0.74
Building Foundation	Plate Compactors	1	8.00	8	0.43
Building Foundation	Pumps	1	8.00	84	0.74
Building Foundation	Rubber Tired Loaders	1	8.00	203	0.36
Building Foundation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Foundation	Welders	1	8.00	46	0.45
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Pavers	1	8.00	130	0.42

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Paving	Paving Equipment			8.00	132	0.36
Paving	Rollers	1		8.00	80	0.38
Paving	Rubber Tired Loaders	1		8.00	203	0.36
Paving	Skid Steer Loaders	2		8.00	65	0.37
Paving	Surfacing Equipment	1		8.00	263	0.30
Paving	Trenchers	1		8.00	78	0.50

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	7	20.00	15.00	0.00	14.70	75.00	20.00	LD_Mix	HHDT	HHDT
Grading	6	20.00	25.00	0.00	14.70	75.00	20.00	LD_Mix	HHDT	HHDT
Building Foundation	8	35.00	8.00	0.00	14.70	13.80	20.00	LD_Mix	HHDT	HHDT
Building Construction	13	55.00	14.00	0.00	14.70	13.80	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	40.00	12.00	0.00	14.70	13.80	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					
Fugitive Dust																0.0000
Off-Road																27.5170
Total																27.5170

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
Vendor																34.0669
Worker																1.6613
Total																35.7282

Mitigated Construction On-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust																	0.0000
Off-Road																	27.5170
Total																	27.5170

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
Vendor																	34.0669
Worker																	1.6613
Total																	35.7282

3.3 Grading - 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						
Fugitive Dust																	0.0000
Off-Road																	57.4357
Total																	57.4357

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
Vendor																	135.6365
Worker																	3.9688
Total																	139.6053

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust																	0.0000
Off-Road																	57.4357
Total																	57.4357

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
Vendor																	135.6365
Worker																	3.9688
Total																	139.6053

3.4 Building Foundation - 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																	38.1117
Total																	38.1117

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
Vendor																	6.5051

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Worker																		4.8456
Total																		11.3506

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																	38.1116
Total																	38.1116

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
Vendor																	6.5051
Worker																	4.8456
Total																	11.3506

3.5 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																	127.9369
Total																	127.9369

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					

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Hauling																		0.0000
Vendor																		18.7167
Worker																		15.7366
Total																		34.4534

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																	127.9367
Total																	127.9367

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
Vendor																	18.7167
Worker																	15.7366
Total																	34.4534

3.5 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																	311.5871
Total																	311.5871

Unmitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling																0.0000
Vendor																44.2518
Worker																36.8967
Total																81.1485

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																311.5867
Total																311.5867

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
Vendor																44.2518
Worker																36.8967
Total																81.1485

3.6 Architectural Coating - 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					
Archit. Coating																0.0000
Off-Road																10.9954
Total																10.9954

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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
Vendor																	0.0000
Worker																	1.9104
Total																	1.9104

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						
Archit. Coating																	0.0000
Off-Road																	10.9954
Total																	10.9954

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
Vendor																	0.0000
Worker																	1.9104
Total																	1.9104

3.7 Paving - 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																	148.2426
Paving																	0.0000

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Total																		148.2426
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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
Vendor																	19.8442
Worker																	14.0390
Total																	33.8832

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																	148.2424
Paving																	0.0000
Total																	148.2424

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
Vendor																	19.8442
Worker																	14.0390
Total																	33.8832

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	1,170,387.9
Unmitigated																	1,170,387.9

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	0.00	0.00	0.00		
User Defined Educational	1,010.00	0.00	0.00	3,132,818	3,132,818
Total	1,010.00	0.00	0.00	3,132,818	3,132,818

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
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Educational	0.00	11.93	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827
User Defined Educational	0.553907	0.042339	0.204535	0.114490	0.014186	0.005810	0.021866	0.032691	0.002129	0.001663	0.004844	0.000713	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated																	93.2420
Electricity Unmitigated																	108.2656
NaturalGas Mitigated																	33.1309
NaturalGas Unmitigated																	36.3921

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Elementary School	677934																	36.3921
User Defined Educational	0																	0.0000
Total																		36.3921

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Elementary School	617181																	33.1309
User Defined Educational	0																	0.0000
Total																		33.1309

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	385901				108.2656
User Defined Educational	0				0.0000
Total					108.2656

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	332351				93.2420
User Defined Educational	0				0.0000
Total					93.2420

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	0.0114
Unmitigated																	0.0114

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	0.0114
Total																	0.0114

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	0.0114
Total																	0.0114

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				10.8656
Unmitigated				13.5820

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	1.04242 / 2.68052				13.5820
User Defined Educational	0 / 0				0.0000
Total					13.5820

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	0.833939 / 2.14441				10.8656
User Defined Educational	0 / 0				0.0000
Total					10.8656

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

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Mitigated			9.3132
Unmitigated			39.4627

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Elementary School	78.47				39.4627
User Defined Educational	0				0.0000
Total					39.4627

Mitigated

Land Use	Waste Disposed tons	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Elementary School	18.5189				9.3132
User Defined Educational	0				0.0000
Total					9.3132

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
Emergency Generator	1	1	12	300	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/Mitigated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	tons/yr										MT/yr						
Emergency Generator - Diesel (200,000 HP)																	1.3757
Total																	1.3757

11.0 Vegetation
