

APPENDIX A

Air Quality and GHG Calculations,
CO Hotspots Analysis CALINE4 Output,
and Health Risk Assessment

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

Mid Valley Water Facility Unmitigated HRA
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	69.00	1000sqft	1.58	69,000.00	0
General Office Building	3.00	1000sqft	0.07	3,000.00	0
Research & Development	19.00	1000sqft	0.44	19,000.00	0
General Light Industry	116.00	1000sqft	2.66	116,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Unrefrigerated Warehouse-No Rail	72.00	1000sqft	1.65	72,000.00	0
Enclosed Parking Structure	216.00	1000sqft	4.96	216,000.00	0
Other Asphalt Surfaces	181.00	1000sqft	4.16	181,000.00	0
Other Asphalt Surfaces	12.00	1000sqft	0.28	12,000.00	0
Automobile Care Center	9.00	1000sqft	0.21	9,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2026

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	758.16	CH4 Intensity (lb/MW/hr)	0.018	N2O Intensity (lb/MW/hr)	0.004
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1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Los Angeles Department of Water and Power adjusted for 43.2% RPS in 2026. HRA

Land Use -

Construction Phase - Data provided by applicant.

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

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Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant.

Grading - Data provided by applicant.

Vehicle Trips - Data provided by Traffic Report. HRA onsite vehicle travel assumed 0.19 miles (1,000 feet).

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Data provided by applicant.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	42.00

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tblConstructionPhase	NumDays	300.00	238.00
tblConstructionPhase	NumDays	300.00	108.00
tblConstructionPhase	NumDays	300.00	22.00
tblConstructionPhase	NumDays	300.00	195.00
tblConstructionPhase	NumDays	300.00	238.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	30.00	130.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	10.00	21.00
tblGrading	AcresOfGrading	325.00	6.57
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00

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tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	UsageHours	7.00	4.00
tbIOffRoadEquipment	UsageHours	7.00	4.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tbOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	10.00
tbIProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tbIProjectCharacteristics	CO2IntensityFactor	1227.89	758.16
tbIProjectCharacteristics	N2OIntensityFactor	0.006	0.004

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tblTripsAndVMT	HaulingTripNumber	0.00	4,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	11,118.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	10.00
tblTripsAndVMT	VendorTripNumber	116.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	22.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	12.00
tblTripsAndVMT	VendorTripNumber	116.00	24.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	57.00	44.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	6.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	18.00
tblTripsAndVMT	WorkerTripNumber	286.00	48.00
tblTripsAndVMT	WorkerTripNumber	286.00	68.00

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tblTripsAndVMT	WorkerTripNumber		
tblVehicleTrips	CC_TL	286.00	28.00
tblVehicleTrips	CNW_TL	8.40	0.19
tblVehicleTrips	CW_TL	6.90	0.19
tblVehicleTrips	ST_TR	16.60	0.19
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	1.32	2.22
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.68	1.14
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	6.97	11.72
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	8.11	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

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**2.1 Overall Construction
Unmitigated Construction**

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2020	0.1041	1.3174	0.6631	1.9100e-003	0.3428	0.0492	0.3921	0.1630	0.0453	0.2084	0.0000	176.3897	176.3897	0.0364	0.0000	177.3001
2021	0.8245	8.2749	6.4427	0.0153	0.5367	0.3341	0.8708	0.2344	0.3143	0.5487	0.0000	1,368.8108	1,368.8108	0.2494	0.0000	1,375.0456
2022	2.3690	8.1161	7.9973	0.0165	0.2391	0.3525	0.5916	0.0644	0.3347	0.3991	0.0000	1,440.3464	1,440.3464	0.2493	0.0000	1,446.5797
2023	0.0330	0.3645	0.2923	8.1000e-004	0.0295	0.0135	0.0430	7.4700e-003	0.0126	0.0201	0.0000	74.2762	74.2762	0.0142	0.0000	74.6299
Maximum	2.3690	8.2749	7.9973	0.0165	0.5367	0.3525	0.8708	0.2344	0.3347	0.5487	0.0000	1,440.3464	1,440.3464	0.2494	0.0000	1,446.5797

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2.1 Overall Construction
Mitigated Construction

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2020	0.1041	1.3174	0.6631	1.9100e-003	0.1827	0.0492	0.2320	0.0760	0.0453	0.1213	0.0000	176.3896	176.3896	0.0364	0.0000	177.3000
2021	0.8245	8.2749	6.4427	0.0153	0.3380	0.3341	0.6721	0.1261	0.3143	0.4404	0.0000	1,368.8097	1,368.8097	0.2494	0.0000	1,375.0446
2022	2.3690	8.1161	7.9973	0.0165	0.2391	0.3525	0.5916	0.0644	0.3347	0.3991	0.0000	1,440.3452	1,440.3452	0.2493	0.0000	1,446.5784
2023	0.0330	0.3645	0.2923	8.1000e-004	0.0295	0.0135	0.0430	7.4700e-003	0.0126	0.0201	0.0000	74.2761	74.2761	0.0142	0.0000	74.6298
Maximum	2.3690	8.2749	7.9973	0.0165	0.3380	0.3525	0.6721	0.1261	0.3347	0.4404	0.0000	1,440.3452	1,440.3452	0.2494	0.0000	1,446.5784

Percent Reduction	tons/quarter										tons/quarter					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
0.00	0.00	0.00	0.00	0.00	31.25	0.00	18.91	41.62	0.00	16.61	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOx (tons/quarter)	Maximum Mitigated ROG + NOx (tons/quarter)
1	11-1-2020	1-31-2021	2.2173	2.2173
2	2-1-2021	4-30-2021	2.3670	2.3670
3	5-1-2021	7-31-2021	1.2257	1.2257
4	8-1-2021	10-31-2021	2.3691	2.3691
5	11-1-2021	1-31-2022	3.2968	3.2968
6	2-1-2022	4-30-2022	2.9907	2.9907
7	5-1-2022	7-31-2022	2.6197	2.6197
8	8-1-2022	10-31-2022	2.8954	2.8954

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9	11-1-2022	1-31-2023	1.3901	1.3901
		Highest	3.2968	3.2968

**2.2 Overall Operational
Unmitigated Operational**

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	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	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Energy	0.0192	0.1747	0.1467	1.0500e-003	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	1,609.7555	1,609.7555	0.0374	0.0110	1,613.9600
Mobile	0.1418	0.6365	0.6354	1.1200e-003	0.0273	1.2600e-003	0.0286	7.3200e-003	1.1700e-003	8.4900e-003	0.0000	106.3183	106.3183	0.103	0.0000	106.5765
Offroad	0.0565	0.5321	0.7369	9.9000e-004	0.0285	0.0285	0.0285	0.0262	0.0000	0.0262	0.0000	87.2894	87.2894	0.282	0.0000	87.9951
Waste					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	65.8137	0.0000	65.8137	3.8895	0.0000	163.0507
Water					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	21.6719	337.8355	359.5073	2.2339	0.0543	431.5491
Total	1.4573	1.3433	1.5281	3.1600e-003	0.0273	0.0431	0.0704	7.3200e-003	0.0407	0.0480	87.4856	2,141.2161	2,228.7017	6.1994	0.0653	2,403.1501

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2.2 Overall Operational

Mitigated Operational

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Energy	0.0192	0.1747	0.1467	1.0500e-003	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	1.6097555	1.6097555	0.0374	0.0110	1.6139600
Mobile	0.1418	0.6365	0.6354	1.1200e-003	0.0273	1.2600e-003	0.0286	7.3200e-003	1.1700e-003	8.4900e-003	0.0000	106.3183	106.3183	0.0103	0.0000	106.5765
Offroad	0.0565	0.5321	0.7369	9.9000e-004	0.0285	0.0285	0.0285	0.0262	0.0262	0.0262	0.0000	87.2894	87.2894	0.0282	0.0000	87.9951
Waste					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	65.8137	0.0000	65.8137	3.8895	0.0000	163.0507
Water					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	21.6719	337.8355	359.5073	2.2339	0.0543	431.5491
Total	1.4573	1.3433	1.5281	3.1600e-003	0.0273	0.0431	0.0704	7.3200e-003	0.0407	0.0480	87.4856	2,141,2161	2,228,7017	6.1994	0.0653	2,403.1501

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/1/2020	11/30/2020	5	21	
2	Grading	Grading	12/1/2020	5/31/2021	5	130	
3	Trenching & Underground Utilities	Trenching	7/1/2021	7/30/2021	5	22	
4	Perimeter Walls Construction	Building Construction	7/1/2021	7/30/2021	5	22	
5	Paving & Site Infrastructure	Paving	8/1/2021	8/21/2021	5	15	
6	Office Building & Staff Parking	Building Construction	9/1/2021	5/31/2022	5	195	
7	Water Distribution Shop and Maintenance Building	Building Construction	9/1/2021	7/30/2022	5	238	
8	Department Fleet Vehicles Parking	Building Construction	9/1/2021	8/31/2022	5	261	
9	Supply Chain Services Warehouse	Building Construction	9/1/2021	8/31/2022	5	261	
10	Fleet Maintenance Building and CNG Dispensing Area	Building Construction	9/1/2021	7/30/2022	5	238	
11	Street Improvement of Hazeltine Avenue	Building Construction	9/1/2022	1/30/2023	5	108	
12	Architectural Coating	Architectural Coating	9/1/2022	10/30/2022	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.57

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 444,000; Non-Residential Outdoor: 148,000; Striped Parking Area: 24,540 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38

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Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Perimeter Walls Construction	Bore/Drill Rigs	1	8.00	221	0.50
Perimeter Walls Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Perimeter Walls Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Perimeter Walls Construction	Cranes	1	7.00	231	0.29
Perimeter Walls Construction	Forklifts	3	8.00	89	0.20
Perimeter Walls Construction	Generator Sets	1	8.00	84	0.74
Perimeter Walls Construction	Paving Equipment	1	8.00	132	0.36
Perimeter Walls Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Perimeter Walls Construction	Welders	1	8.00	46	0.45
Paving & Site Infrastructure	Pavers	2	8.00	130	0.42
Paving & Site Infrastructure	Paving Equipment	2	8.00	132	0.36
Paving & Site Infrastructure	Rollers	2	8.00	80	0.38
Street Improvement of Hazeltine Avenue	Cranes	1	7.00	231	0.29
Street Improvement of Hazeltine Avenue	Excavators	1	8.00	158	0.38
Street Improvement of Hazeltine Avenue	Forklifts	3	8.00	89	0.20
Street Improvement of Hazeltine Avenue	Generator Sets	1	8.00	84	0.74
Street Improvement of Hazeltine Avenue	Graders	1	8.00	187	0.41
Street Improvement of Hazeltine Avenue	Rubber Tired Dozers	1	8.00	247	0.40
Street Improvement of Hazeltine Avenue	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Street Improvement of Hazeltine Avenue	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

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Trenching & Underground Utilities	Plate Compactors	1	8.00	8	0.43
Trenching & Underground Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching & Underground Utilities	Trenchers	1	8.00	78	0.50
Office Building & Staff Parking	Cranes	1	4.00	231	0.29
Office Building & Staff Parking	Forklifts	2	6.00	89	0.20
Office Building & Staff Parking	Forklifts	2	7.00	89	0.20
Office Building & Staff Parking	Generator Sets	1	8.00	84	0.74
Office Building & Staff Parking	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Office Building & Staff Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Office Building & Staff Parking	Welders	3	8.00	46	0.45
Water Distribution Shop and Maintenance Building	Cranes	1	8.00	231	0.29
Water Distribution Shop and Maintenance Building	Forklifts	2	7.00	89	0.20
Water Distribution Shop and Maintenance Building	Generator Sets	1	8.00	84	0.74
Water Distribution Shop and Maintenance Building	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Water Distribution Shop and Maintenance Building	Welders	3	8.00	46	0.45
Department Fleet Vehicles Parking	Cranes	1	8.00	231	0.29
Department Fleet Vehicles Parking	Forklifts	2	7.00	89	0.20
Department Fleet Vehicles Parking	Generator Sets	1	8.00	84	0.74
Department Fleet Vehicles Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Department Fleet Vehicles Parking	Welders	3	8.00	46	0.45
Supply Chain Services Warehouse	Cranes	1	6.00	231	0.29
Supply Chain Services Warehouse	Forklifts	1	6.00	89	0.20
Supply Chain Services Warehouse	Generator Sets	1	8.00	84	0.74
Supply Chain Services Warehouse	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Supply Chain Services Warehouse	Welders	3	8.00	46	0.45
Fleet Maintenance Building and CNG Dispensing Area	Cranes	1	4.00	231	0.29

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Fleet Maintenance Building and CNG Dispensing Area	Forklifts	2	6.00	89	0.20
Fleet Maintenance Building and CNG Dispensing Area	Generator Sets	1	8.00	84	0.74
Fleet Maintenance Building and CNG Dispensing Area	Pavers	1	6.00	130	0.42
Fleet Maintenance Building and CNG Dispensing Area	Paving Equipment	1	8.00	132	0.36
Fleet Maintenance Building and CNG Dispensing Area	Rollers	1	7.00	80	0.38
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Welders	1	8.00	46	0.45

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	2.00	11,118.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Site Infrastructure	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvement of Hazeltine Avenue	12	16.00	2.00	4,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching & Underground Utilities	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Office Building & Staff Parking	12	18.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Water Distribution System and Maintenance	8	48.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Department Fleet Vehicles Parking	8	68.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Supply Chain Services Warehouse	7	28.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fleet Maintenance Building and CNG Dis	11	16.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.2 Site Preparation - 2020
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.1897	0.0000	0.1897	0.1043	0.0000	0.1043	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4454	0.2259	4.0000e-004	0.0231	0.0231	0.0231	0.0212	0.0212	0.0212	0.0000	35.1022	35.1022	0.0114	0.0000	35.3860
Total	0.0428	0.4454	0.2259	4.0000e-004	0.1897	0.0231	0.2128	0.1043	0.0212	0.1255	0.0000	35.1022	35.1022	0.0114	0.0000	35.3860

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	2.2800e-003	6.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5217	0.5217	3.0000e-005	0.0000	0.5225
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	9.5000e-004	2.9800e-003	8.4000e-003	3.0000e-005	2.2000e-003	3.0000e-005	2.2300e-003	5.9000e-004	3.0000e-005	6.2000e-004	0.0000	2.4521	2.4521	9.0000e-005	0.0000	2.4544

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3.2 Site Preparation - 2020

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0740	0.0000	0.0740	0.0407	0.0000	0.0407	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4454	0.2259	4.0000e-004	0.0231	0.0231	0.0231	0.0212	0.0212	0.0212	0.0000	35.1022	35.1022	0.0114	0.0000	35.3860
Total	0.0428	0.4454	0.2259	4.0000e-004	0.0740	0.0231	0.0971	0.0407	0.0212	0.0619	0.0000	35.1022	35.1022	0.0114	0.0000	35.3860

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	2.2800e-003	6.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5217	0.5217	3.0000e-005	0.0000	0.5225
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	9.5000e-004	2.9800e-003	8.4000e-003	3.0000e-005	2.2000e-003	3.0000e-005	2.2300e-003	5.9000e-004	3.0000e-005	6.2000e-004	0.0000	2.4521	2.4521	9.0000e-005	0.0000	2.4544

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3.3 Grading - 2020

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0727	0.0000	0.0727	0.0384	0.0000	0.0384	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0508	0.5737	0.3562	6.9000e-004	0.0252	0.0252	0.0252	0.0232	0.0232	0.0232	0.0000	60.5772	60.5772	0.0196	0.0000	61.0670
Total	0.0508	0.5737	0.3562	6.9000e-004	0.0727	0.0252	0.0979	0.0384	0.0232	0.0616	0.0000	60.5772	60.5772	0.0196	0.0000	61.0670

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	8.6800e-003	0.2921	0.0644	7.7000e-004	0.0760	9.1000e-004	0.0769	0.0192	8.7000e-004	0.0200	0.0000	75.8076	75.8076	5.2800e-003	0.0000	75.9396
Vendor	8.0000e-005	2.4900e-003	6.7000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5714	0.5714	4.0000e-005	0.0000	0.5723
Worker	8.5000e-004	6.8000e-004	7.5700e-003	2.0000e-005	2.0200e-003	2.0000e-005	2.0300e-003	5.4000e-004	2.0000e-005	5.5000e-004	0.0000	1.8793	1.8793	6.0000e-005	0.0000	1.8808
Total	9.6100e-003	0.2952	0.0726	8.0000e-004	0.0782	9.4000e-004	0.0791	0.0197	9.0000e-004	0.0206	0.0000	78.2583	78.2583	5.3800e-003	0.0000	78.3927

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3.3 Grading - 2020

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0284	0.0000	0.0284	0.0150	0.0000	0.0150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0508	0.5737	0.3562	6.9000e-004		0.0252	0.0252	0.0232	0.0232	0.0000	0.0000	60.5771	60.5771	0.0196	0.0000	61.0669
Total	0.0508	0.5737	0.3562	6.9000e-004	0.0284	0.0252	0.0536	0.0232	0.0232	0.0382	0.0000	60.5771	60.5771	0.0196	0.0000	61.0669

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	8.6800e-003	0.2921	0.0644	7.7000e-004	0.0760	9.1000e-004	0.0769	0.0192	8.7000e-004	0.0200	0.0000	75.8076	75.8076	5.2800e-003	0.0000	75.9396
Vendor	8.0000e-005	2.4900e-003	6.7000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5714	0.5714	4.0000e-005	0.0000	0.5723
Worker	8.5000e-004	6.8000e-004	7.5700e-003	2.0000e-005	2.0200e-003	2.0000e-005	2.0300e-003	5.4000e-004	2.0000e-005	5.5000e-004	0.0000	1.8793	1.8793	6.0000e-005	0.0000	1.8808
Total	9.6100e-003	0.2952	0.0726	8.0000e-004	0.0782	9.4000e-004	0.0791	0.0197	9.0000e-004	0.0206	0.0000	78.2583	78.2583	5.3800e-003	0.0000	78.3927

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3.3 Grading - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.3257	0.0000	0.3257	0.1775	0.0000	0.1775	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2220	2.4686	1.5979	3.2100e-003	0.1066	0.1066	0.1066	0.0981	0.0981	0.0981	0.0000	281.8756	281.8756	0.0912	0.0000	284.1548
Total	0.2220	2.4686	1.5979	3.2100e-003	0.3257	0.1066	0.4323	0.1775	0.0981	0.2756	0.0000	281.8756	281.8756	0.0912	0.0000	284.1548

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0385	1.2666	0.2953	3.5400e-003	0.0914	3.7900e-003	0.0951	0.0247	3.6300e-003	0.0283	0.0000	348.7875	348.7875	0.0242	0.0000	349.3927
Vendor	3.3000e-004	0.0106	2.8600e-003	3.0000e-005	6.7000e-004	2.0000e-005	7.0000e-004	1.9000e-004	2.0000e-005	2.2000e-004	0.0000	2.6375	2.6375	1.6000e-004	0.0000	2.6416
Worker	3.6800e-003	2.8700e-003	0.0324	9.0000e-005	9.3800e-003	8.0000e-005	9.4600e-003	2.4900e-003	7.0000e-005	2.5600e-003	0.0000	8.4651	8.4651	2.5000e-004	0.0000	8.4714
Total	0.0426	1.2800	0.3306	3.6600e-003	0.1014	3.8900e-003	0.1053	0.0274	3.7200e-003	0.0311	0.0000	359.8901	359.8901	0.0246	0.0000	360.5056

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.3 Grading - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.1270	0.0000	0.1270	0.0692	0.0000	0.0692	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2220	2.4686	1.5979	3.2100e-003	0.1066	0.1066	0.1066	0.0981	0.0981	0.0981	0.0000	281.8753	281.8753	0.0912	0.0000	284.1544
Total	0.2220	2.4686	1.5979	3.2100e-003	0.1270	0.1066	0.2336	0.0692	0.0981	0.1673	0.0000	281.8753	281.8753	0.0912	0.0000	284.1544

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0385	1.2666	0.2953	3.5400e-003	0.0914	3.7900e-003	0.0951	0.0247	3.6300e-003	0.0283	0.0000	348.7875	348.7875	0.0242	0.0000	349.3927
Vendor	3.3000e-004	0.0106	2.8600e-003	3.0000e-005	6.7000e-004	2.0000e-005	7.0000e-004	1.9000e-004	2.0000e-005	2.2000e-004	0.0000	2.6375	2.6375	1.6000e-004	0.0000	2.6416
Worker	3.6800e-003	2.8700e-003	0.0324	9.0000e-005	9.3800e-003	8.0000e-005	9.4600e-003	2.4900e-003	7.0000e-005	2.5600e-003	0.0000	8.4651	8.4651	2.5000e-004	0.0000	8.4714
Total	0.0426	1.2800	0.3306	3.6600e-003	0.1014	3.8900e-003	0.1053	0.0274	3.7200e-003	0.0311	0.0000	359.8901	359.8901	0.0246	0.0000	360.5056

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3.4 Trenching & Underground Utilities - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	8.7700e-003	0.0831	0.0807	1.1000e-004	5.3700e-003	5.3700e-003	5.3700e-003	4.9500e-003	4.9500e-003	4.9500e-003	0.0000	9.6118	9.6118	3.0300e-003	0.0000	9.6877
Total	8.7700e-003	0.0831	0.0807	1.1000e-004	5.3700e-003	5.3700e-003	5.3700e-003	4.9500e-003	4.9500e-003	4.9500e-003	0.0000	9.6118	9.6118	3.0300e-003	0.0000	9.6877

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.1700e-003	5.9000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5423	0.5423	3.0000e-005	0.0000	0.5431
Worker	4.7000e-004	3.7000e-004	4.1600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.0000e-005	3.3000e-004	0.0000	1.0878	1.0878	3.0000e-005	0.0000	1.0886
Total	5.4000e-004	2.5400e-003	4.7500e-003	2.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.6301	1.6301	6.0000e-005	0.0000	1.6317

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3.4 Trenching & Underground Utilities - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	8.7700e-003	0.0831	0.0807	1.1000e-004	5.3700e-003	5.3700e-003	5.3700e-003	4.9500e-003	4.9500e-003	4.9500e-003	0.0000	9.6118	9.6118	3.0300e-003	0.0000	9.6876
Total	8.7700e-003	0.0831	0.0807	1.1000e-004	5.3700e-003	5.3700e-003	5.3700e-003	4.9500e-003	4.9500e-003	4.9500e-003	0.0000	9.6118	9.6118	3.0300e-003	0.0000	9.6876

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.1700e-003	5.9000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5423	0.5423	3.0000e-005	0.0000	0.5431
Worker	4.7000e-004	3.7000e-004	4.1600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.0000e-005	3.3000e-004	0.0000	1.0878	1.0878	3.0000e-005	0.0000	1.0886
Total	5.4000e-004	2.5400e-003	4.7500e-003	2.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.6301	1.6301	6.0000e-005	0.0000	1.6317

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3.5 Perimeter Walls Construction - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0307	0.2838	0.2769	5.2000e-004		0.0147	0.0147		0.0139	0.0139	0.0000	44.9362	44.9362	0.0108	0.0000	45.2052
Total	0.0307	0.2838	0.2769	5.2000e-004		0.0147	0.0147		0.0139	0.0139	0.0000	44.9362	44.9362	0.0108	0.0000	45.2052

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.3400e-003	1.1800e-003	1.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	1.0846	1.0846	7.0000e-005	0.0000	1.0863
Worker	2.8000e-004	2.2000e-004	2.5000e-003	1.0000e-005	1.9800e-003	1.0000e-005	1.9800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	0.6527	0.6527	2.0000e-005	0.0000	0.6532
Total	4.2000e-004	4.5600e-003	3.6800e-003	2.0000e-005	2.6500e-003	2.0000e-005	2.6600e-003	6.8000e-004	2.0000e-005	6.9000e-004	0.0000	1.7373	1.7373	9.0000e-005	0.0000	1.7394

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.5 Perimeter Walls Construction - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0307	0.2838	0.2769	5.2000e-004		0.0147	0.0147		0.0139	0.0139	0.0000	44.9362	44.9362	0.0108	0.0000	45.2052
Total	0.0307	0.2838	0.2769	5.2000e-004		0.0147	0.0147		0.0139	0.0139	0.0000	44.9362	44.9362	0.0108	0.0000	45.2052

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.3400e-003	1.1800e-003	1.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	1.0846	1.0846	7.0000e-005	0.0000	1.0863
Worker	2.8000e-004	2.2000e-004	2.5000e-003	1.0000e-005	1.9800e-003	1.0000e-005	1.9800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	0.6527	0.6527	2.0000e-005	0.0000	0.6532
Total	4.2000e-004	4.5600e-003	3.6800e-003	2.0000e-005	2.6500e-003	2.0000e-005	2.6600e-003	6.8000e-004	2.0000e-005	6.9000e-004	0.0000	1.7373	1.7373	9.0000e-005	0.0000	1.7394

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.6 Paving & Site Infrastructure - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	9.4200e-003	0.0969	0.1099	1.7000e-004	5.0800e-003	5.0800e-003	5.0800e-003	4.6800e-003	4.6800e-003	4.6800e-003	0.0000	15.0176	15.0176	4.8600e-003	0.0000	15.1390
Paving	5.8200e-003				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0152	0.0969	0.1099	1.7000e-004	5.0800e-003	5.0800e-003	5.0800e-003	4.6800e-003	4.6800e-003	4.6800e-003	0.0000	15.0176	15.0176	4.8600e-003	0.0000	15.1390

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.9600e-003	8.0000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7395	0.7395	5.0000e-005	0.0000	0.7406
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	6.1000e-004	3.3600e-003	5.3400e-003	2.0000e-005	1.5000e-003	2.0000e-005	1.5300e-003	4.0000e-004	2.0000e-005	4.2000e-004	0.0000	1.9262	1.9262	8.0000e-005	0.0000	1.9282

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.6 Paving & Site Infrastructure - 2021
Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	9.4200e-003	0.0969	0.1099	1.7000e-004	5.0800e-003	5.0800e-003	5.0800e-003	4.6800e-003	4.6800e-003	4.6800e-003	0.0000	15.0176	15.0176	4.8600e-003	0.0000	15.1390
Paving	5.8200e-003				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0152	0.0969	0.1099	1.7000e-004	5.0800e-003	5.0800e-003	5.0800e-003	4.6800e-003	4.6800e-003	4.6800e-003	0.0000	15.0176	15.0176	4.8600e-003	0.0000	15.1390

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.9600e-003	8.0000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7395	0.7395	5.0000e-005	0.0000	0.7406
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	6.1000e-004	3.3600e-003	5.3400e-003	2.0000e-005	1.5000e-003	2.0000e-005	1.5300e-003	4.0000e-004	2.0000e-005	4.2000e-004	0.0000	1.9262	1.9262	8.0000e-005	0.0000	1.9282

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.7 Office Building & Staff Parking - 2021
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1059	0.8432	0.8731	1.3500e-003		0.0470	0.0470		0.0446	0.0446	0.0000	113.0989	113.0989	0.0250	0.0000	113.7240
Total	0.1059	0.8432	0.8731	1.3500e-003		0.0470	0.0470		0.0446	0.0446	0.0000	113.0989	113.0989	0.0250	0.0000	113.7240

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6400e-003	0.0521	0.0141	1.3000e-004	3.3300e-003	1.1000e-004	3.4300e-003	9.6000e-004	1.0000e-004	1.0600e-003	0.0000	13.0150	13.0150	8.0000e-004	0.0000	13.0350
Worker	3.4100e-003	2.6500e-003	0.0300	9.0000e-005	8.6800e-003	7.0000e-005	8.7500e-003	2.3100e-003	7.0000e-005	2.3700e-003	0.0000	7.8322	7.8322	2.3000e-004	0.0000	7.8380
Total	5.0500e-003	0.0548	0.0441	2.2000e-004	0.0120	1.8000e-004	0.0122	3.2700e-003	1.7000e-004	3.4300e-003	0.0000	20.8472	20.8472	1.0300e-003	0.0000	20.8730

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.7 Office Building & Staff Parking - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1059	0.8432	0.8731	1.3500e-003		0.0470	0.0470		0.0446	0.0446	0.0000	113.0987	113.0987	0.0250	0.0000	113.7238
Total	0.1059	0.8432	0.8731	1.3500e-003		0.0470	0.0470		0.0446	0.0446	0.0000	113.0987	113.0987	0.0250	0.0000	113.7238

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6400e-003	0.0521	0.0141	1.3000e-004	3.3300e-003	1.1000e-004	3.4300e-003	9.6000e-004	1.0000e-004	1.0600e-003	0.0000	13.0150	13.0150	8.0000e-004	0.0000	13.0350
Worker	3.4100e-003	2.6500e-003	0.0300	9.0000e-005	8.6800e-003	7.0000e-005	8.7500e-003	2.3100e-003	7.0000e-005	2.3700e-003	0.0000	7.8322	7.8322	2.3000e-004	0.0000	7.8380
Total	5.0500e-003	0.0548	0.0441	2.2000e-004	0.0120	1.8000e-004	0.0122	3.2700e-003	1.7000e-004	3.4300e-003	0.0000	20.8472	20.8472	1.0300e-003	0.0000	20.8730

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.7 Office Building & Staff Parking - 2022

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1160	0.9333	1.0493	1.6400e-003		0.0482	0.0482		0.0458	0.0458	0.0000	137.5654	137.5654	0.0300	0.0000	138.3152
Total	0.1160	0.9333	1.0493	1.6400e-003		0.0482	0.0482		0.0458	0.0458	0.0000	137.5654	137.5654	0.0300	0.0000	138.3152

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0602	0.0163	1.6000e-004	4.0400e-003	1.1000e-004	4.1600e-003	1.1700e-003	1.1000e-004	1.2800e-003	0.0000	15.6861	15.6861	9.4000e-004	0.0000	15.7095
Worker	3.8900e-003	2.9100e-003	0.0336	1.0000e-004	0.0106	8.0000e-005	0.0106	2.8000e-003	8.0000e-005	2.8800e-003	0.0000	9.1885	9.1885	2.5000e-004	0.0000	9.1948
Total	5.7600e-003	0.0631	0.0498	2.6000e-004	0.0146	1.9000e-004	0.0148	3.9700e-003	1.9000e-004	4.1600e-003	0.0000	24.8746	24.8746	1.1900e-003	0.0000	24.9044

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.7 Office Building & Staff Parking - 2022

Mitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1160	0.9333	1.0493	1.6400e-003		0.0482	0.0482		0.0458	0.0458	0.0000	137.5652	137.5652	0.0300	0.0000	138.3150
Total	0.1160	0.9333	1.0493	1.6400e-003		0.0482	0.0482		0.0458	0.0458	0.0000	137.5652	137.5652	0.0300	0.0000	138.3150

Mitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0602	0.0163	1.6000e-004	4.0400e-003	1.1000e-004	4.1600e-003	1.1700e-003	1.1000e-004	1.2800e-003	0.0000	15.6861	15.6861	9.4000e-004	0.0000	15.7095
Worker	3.8900e-003	2.9100e-003	0.0336	1.0000e-004	0.0106	8.0000e-005	0.0106	2.8000e-003	8.0000e-005	2.8800e-003	0.0000	9.1885	9.1885	2.5000e-004	0.0000	9.1948
Total	5.7600e-003	0.0631	0.0498	2.6000e-004	0.0146	1.9000e-004	0.0148	3.9700e-003	1.9000e-004	4.1600e-003	0.0000	24.8746	24.8746	1.1900e-003	0.0000	24.9044

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.8 Water Distribution Shop and Maintenance Building - 2021

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3654	91.3654	0.0180	0.0000	91.8148
Total	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3654	91.3654	0.0180	0.0000	91.8148

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.1042	0.0283	2.7000e-004	6.6500e-003	2.1000e-004	6.8600e-003	1.9200e-003	2.0000e-004	2.1200e-003	0.0000	26.0300	26.0300	1.6000e-003	0.0000	26.0700
Worker	9.0900e-003	7.0700e-003	0.0799	2.3000e-004	0.0231	1.9000e-004	0.0233	6.1500e-003	1.8000e-004	6.3200e-003	0.0000	20.8859	20.8859	6.1000e-004	0.0000	20.9013
Total	0.0124	0.1113	0.1081	5.0000e-004	0.0298	4.0000e-004	0.0302	8.0700e-003	3.8000e-004	8.4400e-003	0.0000	46.9160	46.9160	2.2100e-003	0.0000	46.9712

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3.8 Water Distribution Shop and Maintenance Building - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3653	91.3653	0.0180	0.0000	91.8147
Total	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3653	91.3653	0.0180	0.0000	91.8147

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.1042	0.0283	2.7000e-004	6.6500e-003	2.1000e-004	6.8600e-003	1.9200e-003	2.0000e-004	2.1200e-003	0.0000	26.0300	26.0300	1.6000e-003	0.0000	26.0700
Worker	9.0900e-003	7.0700e-003	0.0799	2.3000e-004	0.0231	1.9000e-004	0.0233	6.1500e-003	1.8000e-004	6.3200e-003	0.0000	20.8859	20.8859	6.1000e-004	0.0000	20.9013
Total	0.0124	0.1113	0.1081	5.0000e-004	0.0298	4.0000e-004	0.0302	8.0700e-003	3.8000e-004	8.4400e-003	0.0000	46.9160	46.9160	2.2100e-003	0.0000	46.9712

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3.8 Water Distribution Shop and Maintenance Building - 2022

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7601	155.7601	0.0301	0.0000	156.5113
Total	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7601	155.7601	0.0301	0.0000	156.5113

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2500e-003	0.1688	0.0456	4.5000e-004	0.0113	3.2000e-004	0.0117	3.2700e-003	3.0000e-004	3.5800e-003	0.0000	43.9797	43.9797	2.6300e-003	0.0000	44.0454
Worker	0.0145	0.0109	0.1254	3.8000e-004	0.0395	3.1000e-004	0.0398	0.0105	2.9000e-004	0.0108	0.0000	34.3496	34.3496	9.5000e-004	0.0000	34.3732
Total	0.0198	0.1797	0.1710	8.3000e-004	0.0508	6.3000e-004	0.0514	0.0138	5.9000e-004	0.0144	0.0000	78.3292	78.3292	3.5800e-003	0.0000	78.4186

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.8 Water Distribution Shop and Maintenance Building - 2022

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7599	155.7599	0.0301	0.0000	156.5112
Total	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7599	155.7599	0.0301	0.0000	156.5112

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2500e-003	0.1688	0.0456	4.5000e-004	0.0113	3.2000e-004	0.0117	3.2700e-003	3.0000e-004	3.5800e-003	0.0000	43.9797	43.9797	2.6300e-003	0.0000	44.0454
Worker	0.0145	0.0109	0.1254	3.8000e-004	0.0395	3.1000e-004	0.0398	0.0105	2.9000e-004	0.0108	0.0000	34.3496	34.3496	9.5000e-004	0.0000	34.3732
Total	0.0198	0.1797	0.1710	8.3000e-004	0.0508	6.3000e-004	0.0514	0.0138	5.9000e-004	0.0144	0.0000	78.3292	78.3292	3.5800e-003	0.0000	78.4186

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.9 Department Fleet Vehicles Parking - 2021

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3654	91.3654	0.0180	0.0000	91.8148
Total	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3654	91.3654	0.0180	0.0000	91.8148

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	0.0174	4.7100e-003	4.0000e-005	1.1100e-003	4.0000e-005	1.1400e-003	3.2000e-004	3.0000e-005	3.5000e-004	0.0000	4.3383	4.3383	2.7000e-004	0.0000	4.3450
Worker	0.0129	0.0100	0.1131	3.3000e-004	0.0328	2.7000e-004	0.0331	8.7100e-003	2.5000e-004	8.9600e-003	0.0000	29.5884	29.5884	8.7000e-004	0.0000	29.6102
Total	0.0134	0.0274	0.1179	3.7000e-004	0.0339	3.1000e-004	0.0342	9.0300e-003	2.8000e-004	9.3100e-003	0.0000	33.9267	33.9267	1.1400e-003	0.0000	33.9552

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.9 Department Fleet Vehicles Parking - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3653	91.3653	0.0180	0.0000	91.8147
Total	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3653	91.3653	0.0180	0.0000	91.8147

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	0.0174	4.7100e-003	4.0000e-005	1.1100e-003	4.0000e-005	1.1400e-003	3.2000e-004	3.0000e-005	3.5000e-004	0.0000	4.3383	4.3383	2.7000e-004	0.0000	4.3450
Worker	0.0129	0.0100	0.1131	3.3000e-004	0.0328	2.7000e-004	0.0331	8.7100e-003	2.5000e-004	8.9600e-003	0.0000	29.5884	29.5884	8.7000e-004	0.0000	29.6102
Total	0.0134	0.0274	0.1179	3.7000e-004	0.0339	3.1000e-004	0.0342	9.0300e-003	2.8000e-004	9.3100e-003	0.0000	33.9267	33.9267	1.1400e-003	0.0000	33.9552

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.9 Department Fleet Vehicles Parking - 2022

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1605	1.2633	1.2416	2.1600e-003		0.0607	0.0607		0.0582	0.0582	0.0000	179.6433	179.6433	0.0347	0.0000	180.5098
Total	0.1605	1.2633	1.2416	2.1600e-003		0.0607	0.0607		0.0582	0.0582	0.0000	179.6433	179.6433	0.0347	0.0000	180.5098

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0100e-003	0.0324	8.7600e-003	9.0000e-005	2.1800e-003	6.0000e-005	2.2400e-003	6.3000e-004	6.0000e-005	6.9000e-004	0.0000	8.4539	8.4539	5.0000e-004	0.0000	8.4665
Worker	0.0237	0.0178	0.2050	6.2000e-004	0.0645	5.1000e-004	0.0650	0.0171	4.7000e-004	0.0176	0.0000	56.1234	56.1234	1.5500e-003	0.0000	56.1620
Total	0.0247	0.0502	0.2137	7.1000e-004	0.0666	5.7000e-004	0.0672	0.0178	5.3000e-004	0.0183	0.0000	64.5773	64.5773	2.0500e-003	0.0000	64.6285

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.9 Department Fleet Vehicles Parking - 2022

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1605	1.2633	1.2416	2.1600e-003		0.0607	0.0607		0.0582	0.0582	0.0000	179.6431	179.6431	0.0347	0.0000	180.5095
Total	0.1605	1.2633	1.2416	2.1600e-003		0.0607	0.0607		0.0582	0.0582	0.0000	179.6431	179.6431	0.0347	0.0000	180.5095

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0100e-003	0.0324	8.7600e-003	9.0000e-005	2.1800e-003	6.0000e-005	2.2400e-003	6.3000e-004	6.0000e-005	6.9000e-004	0.0000	8.4539	8.4539	5.0000e-004	0.0000	8.4665
Worker	0.0237	0.0178	0.2050	6.2000e-004	0.0645	5.1000e-004	0.0650	0.0171	4.7000e-004	0.0176	0.0000	56.1234	56.1234	1.5500e-003	0.0000	56.1620
Total	0.0247	0.0502	0.2137	7.1000e-004	0.0666	5.7000e-004	0.0672	0.0178	5.3000e-004	0.0183	0.0000	64.5773	64.5773	2.0500e-003	0.0000	64.6285

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.10 Supply Chain Services Warehouse - 2021
Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0798	0.6000	0.5676	9.7000e-004		0.0301	0.0301		0.0291	0.0291	0.0000	79.8810	79.8810	0.0143	0.0000	80.2375
Total	0.0798	0.6000	0.5676	9.7000e-004		0.0301	0.0301		0.0291	0.0291	0.0000	79.8810	79.8810	0.0143	0.0000	80.2375

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1900e-003	0.0695	0.0188	1.8000e-004	4.4300e-003	1.4000e-004	4.5800e-003	1.2800e-003	1.4000e-004	1.4200e-003	0.0000	17.3534	17.3534	1.0600e-003	0.0000	17.3800
Worker	5.3000e-003	4.1300e-003	0.0466	1.3000e-004	0.0135	1.1000e-004	0.0136	3.5900e-003	1.0000e-004	3.6900e-003	0.0000	12.1835	12.1835	3.6000e-004	0.0000	12.1924
Total	7.4900e-003	0.0736	0.0654	3.1000e-004	0.0179	2.5000e-004	0.0182	4.8700e-003	2.4000e-004	5.1100e-003	0.0000	29.5368	29.5368	1.4200e-003	0.0000	29.5724

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.10 Supply Chain Services Warehouse - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0798	0.6000	0.5676	9.7000e-004		0.0301	0.0301		0.0291	0.0291	0.0000	79.8809	79.8809	0.0143	0.0000	80.2374
Total	0.0798	0.6000	0.5676	9.7000e-004		0.0301	0.0301		0.0291	0.0291	0.0000	79.8809	79.8809	0.0143	0.0000	80.2374

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1900e-003	0.0695	0.0188	1.8000e-004	4.4300e-003	1.4000e-004	4.5800e-003	1.2800e-003	1.4000e-004	1.4200e-003	0.0000	17.3534	17.3534	1.0600e-003	0.0000	17.3800
Worker	5.3000e-003	4.1300e-003	0.0466	1.3000e-004	0.0135	1.1000e-004	0.0136	3.5900e-003	1.0000e-004	3.6900e-003	0.0000	12.1835	12.1835	3.6000e-004	0.0000	12.1924
Total	7.4900e-003	0.0736	0.0654	3.1000e-004	0.0179	2.5000e-004	0.0182	4.8700e-003	2.4000e-004	5.1100e-003	0.0000	29.5368	29.5368	1.4200e-003	0.0000	29.5724

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.10 Supply Chain Services Warehouse - 2022
Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1426	1.0815	1.1008	1.9100e-003		0.0509	0.0509	0.0492	0.0492	0.0492	0.0000	157.0640	157.0640	0.0274	0.0000	157.7479
Total	0.1426	1.0815	1.1008	1.9100e-003		0.0509	0.0509	0.0492	0.0492	0.0492	0.0000	157.0640	157.0640	0.0274	0.0000	157.7479

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0300e-003	0.1298	0.0350	3.5000e-004	8.7200e-003	2.4000e-004	8.9600e-003	2.3000e-004	2.3000e-004	2.7500e-003	0.0000	33.8155	33.8155	2.0200e-003	0.0000	33.8660
Worker	9.7700e-003	7.3300e-003	0.0844	2.6000e-004	0.0265	2.1000e-004	0.0268	2.0000e-004	2.0000e-004	7.2400e-003	0.0000	23.1096	23.1096	6.4000e-004	0.0000	23.1255
Total	0.0138	0.1371	0.1194	6.1000e-004	0.0353	4.5000e-004	0.0357	4.3000e-004	9.9900e-003	9.9900e-003	0.0000	56.9251	56.9251	2.6600e-003	0.0000	56.9915

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.10 Supply Chain Services Warehouse - 2022

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1426	1.0815	1.1008	1.9100e-003		0.0509	0.0509		0.0492	0.0492	0.0000	157.0638	157.0638	0.0274	0.0000	157.7477
Total	0.1426	1.0815	1.1008	1.9100e-003		0.0509	0.0509		0.0492	0.0492	0.0000	157.0638	157.0638	0.0274	0.0000	157.7477

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0300e-003	0.1298	0.0350	3.5000e-004	8.7200e-003	2.4000e-004	8.9600e-003	2.5200e-003	2.3000e-004	2.7500e-003	0.0000	33.8155	33.8155	2.0200e-003	0.0000	33.8660
Worker	9.7700e-003	7.3300e-003	0.0844	2.6000e-004	0.0265	2.1000e-004	0.0268	7.0500e-003	2.0000e-004	7.2400e-003	0.0000	23.1096	23.1096	6.4000e-004	0.0000	23.1255
Total	0.0138	0.1371	0.1194	6.1000e-004	0.0353	4.5000e-004	0.0357	9.5700e-003	4.3000e-004	9.9900e-003	0.0000	56.9251	56.9251	2.6600e-003	0.0000	56.9915

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2021

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0953	0.8856	0.9369	1.4800e-003		0.0481	0.0481		0.0451	0.0451	0.0000	127.4405	127.4405	0.0328	0.0000	128.2616
Total	0.0953	0.8856	0.9369	1.4800e-003		0.0481	0.0481		0.0451	0.0451	0.0000	127.4405	127.4405	0.0328	0.0000	128.2616

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	0.0434	0.0118	1.1000e-004	2.7700e-003	9.0000e-005	2.8600e-003	8.0000e-004	8.0000e-005	8.8000e-004	0.0000	10.8459	10.8459	6.7000e-004	0.0000	10.8625
Worker	3.0300e-003	2.3600e-003	0.0266	8.0000e-005	7.7100e-003	6.0000e-005	7.7800e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9620	6.9620	2.0000e-004	0.0000	6.9671
Total	4.4000e-003	0.0458	0.0384	1.9000e-004	0.0105	1.5000e-004	0.0106	2.8500e-003	1.4000e-004	2.9900e-003	0.0000	17.8078	17.8078	8.7000e-004	0.0000	17.8296

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0953	0.8856	0.9369	1.4800e-003		0.0481	0.0481		0.0451	0.0451	0.0000	127.4404	127.4404	0.0328	0.0000	128.2614
Total	0.0953	0.8856	0.9369	1.4800e-003		0.0481	0.0481		0.0451	0.0451	0.0000	127.4404	127.4404	0.0328	0.0000	128.2614

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	0.0434	0.0118	1.1000e-004	2.7700e-003	9.0000e-005	2.8600e-003	8.0000e-004	8.0000e-005	8.8000e-004	0.0000	10.8459	10.8459	6.7000e-004	0.0000	10.8625
Worker	3.0300e-003	2.3600e-003	0.0266	8.0000e-005	7.7100e-003	6.0000e-005	7.7800e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9620	6.9620	2.0000e-004	0.0000	6.9671
Total	4.4000e-003	0.0458	0.0384	1.9000e-004	0.0105	1.5000e-004	0.0106	2.8500e-003	1.4000e-004	2.9900e-003	0.0000	17.8078	17.8078	8.7000e-004	0.0000	17.8296

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3.11 Fleet Maintenance Building and CNG Dispensing Area - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1453	1.3436	1.5824	2.5200e-003		0.0690	0.0690		0.0647	0.0647	0.0000	217.3122	217.3122	0.0557	0.0000	218.7050
Total	0.1453	1.3436	1.5824	2.5200e-003		0.0690	0.0690		0.0647	0.0647	0.0000	217.3122	217.3122	0.0557	0.0000	218.7050

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1900e-003	0.0703	0.0190	1.9000e-004	4.7200e-003	1.3000e-004	4.8600e-003	1.3600e-003	1.3000e-004	1.4900e-003	0.0000	18.3249	18.3249	1.0900e-003	0.0000	18.3522
Worker	4.8400e-003	3.6300e-003	0.0418	1.3000e-004	0.0132	1.0000e-004	0.0133	3.4900e-003	1.0000e-004	3.5900e-003	0.0000	11.4499	11.4499	3.2000e-004	0.0000	11.4577
Total	7.0300e-003	0.0740	0.0608	3.2000e-004	0.0179	2.3000e-004	0.0181	4.8500e-003	2.3000e-004	5.0800e-003	0.0000	29.7747	29.7747	1.4100e-003	0.0000	29.8100

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3.11 Fleet Maintenance Building and CNG Dispensing Area - 2022

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1453	1.3436	1.5824	2.5200e-003	0.0690	0.0690	0.0690	0.0647	0.0647	0.0647	0.0000	217.3120	217.3120	0.0557	0.0000	218.7048
Total	0.1453	1.3436	1.5824	2.5200e-003	0.0690	0.0690	0.0690	0.0647	0.0647	0.0647	0.0000	217.3120	217.3120	0.0557	0.0000	218.7048

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1900e-003	0.0703	0.0190	1.9000e-004	4.7200e-003	1.3000e-004	4.8600e-003	1.3000e-004	1.3000e-004	1.4900e-003	0.0000	18.3249	18.3249	1.0900e-003	0.0000	18.3522
Worker	4.8400e-003	3.6300e-003	0.0418	1.3000e-004	0.0132	1.0000e-004	0.0133	3.4900e-003	1.0000e-004	3.5900e-003	0.0000	11.4499	11.4499	3.2000e-004	0.0000	11.4577
Total	7.0300e-003	0.0740	0.0608	3.2000e-004	0.0179	2.3000e-004	0.0181	4.8500e-003	2.3000e-004	5.0800e-003	0.0000	29.7747	29.7747	1.4100e-003	0.0000	29.8100

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3.12 Street Improvement of Hazeltine Avenue - 2022

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1402	1.3951	1.1206	2.1100e-003		0.0658	0.0658	0.0613	0.0613	0.0613	0.0000	182.9336	182.9336	0.0507	0.0000	184.2014
Total	0.1402	1.3951	1.1206	2.1100e-003		0.0658	0.0658	0.0613	0.0613	0.0613	0.0000	182.9336	182.9336	0.0507	0.0000	184.2014

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0129	0.4139	0.1028	1.2300e-003	0.0327	1.1600e-003	0.0339	8.8400e-003	1.1100e-003	9.9500e-003	0.0000	121.3539	121.3539	8.3900e-003	0.0000	121.5637
Vendor	2.5000e-004	8.1600e-003	2.2000e-003	2.0000e-005	5.5000e-004	2.0000e-005	5.6000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	2.1257	2.1257	1.3000e-004	0.0000	2.1289
Worker	2.8100e-003	2.1100e-003	0.0243	7.0000e-005	7.6300e-003	6.0000e-005	7.6900e-003	2.0300e-003	6.0000e-005	2.0800e-003	0.0000	6.6409	6.6409	1.8000e-004	0.0000	6.6455
Total	0.0160	0.4242	0.1293	1.3200e-003	0.0409	1.2400e-003	0.0421	0.0110	1.1800e-003	0.0122	0.0000	130.1205	130.1205	8.7000e-003	0.0000	130.3381

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.12 Street Improvement of Hazeltine Avenue - 2022

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1402	1.3951	1.1206	2.1100e-003		0.0658	0.0658	0.0613	0.0613	0.0613	0.0000	182.9334	182.9334	0.0507	0.0000	184.2012
Total	0.1402	1.3951	1.1206	2.1100e-003		0.0658	0.0658	0.0613	0.0613	0.0613	0.0000	182.9334	182.9334	0.0507	0.0000	184.2012

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0129	0.4139	0.1028	1.2300e-003	0.0327	1.1600e-003	0.0339	8.8400e-003	1.1100e-003	9.9500e-003	0.0000	121.3539	121.3539	8.3900e-003	0.0000	121.5637
Vendor	2.5000e-004	8.1600e-003	2.2000e-003	2.0000e-005	5.5000e-004	2.0000e-005	5.6000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	2.1257	2.1257	1.3000e-004	0.0000	2.1289
Worker	2.8100e-003	2.1100e-003	0.0243	7.0000e-005	7.6300e-003	6.0000e-005	7.6900e-003	2.0300e-003	6.0000e-005	2.0800e-003	0.0000	6.6409	6.6409	1.8000e-004	0.0000	6.6455
Total	0.0160	0.4242	0.1293	1.3200e-003	0.0409	1.2400e-003	0.0421	0.0110	1.1800e-003	0.0122	0.0000	130.1205	130.1205	8.7000e-003	0.0000	130.3381

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.12 Street Improvement of Hazeltine Avenue - 2023
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0303	0.2970	0.2639	5.1000e-004		0.0134	0.0134		0.0125	0.0125	0.0000	44.1624	44.1624	0.0122	0.0000	44.4675
Total	0.0303	0.2970	0.2639	5.1000e-004		0.0134	0.0134		0.0125	0.0125	0.0000	44.1624	44.1624	0.0122	0.0000	44.4675

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	2.0500e-003	0.0656	0.0225	2.8000e-004	0.0275	1.2000e-004	0.0276	6.9500e-003	1.1000e-004	7.0600e-003	0.0000	28.0724	28.0724	1.8800e-003	0.0000	28.1194
Vendor	5.0000e-005	1.4900e-003	4.8000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4970	0.4970	3.0000e-005	0.0000	0.4977
Worker	6.4000e-004	4.6000e-004	5.3800e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5443	1.5443	4.0000e-005	0.0000	1.5453
Total	2.7400e-003	0.0675	0.0284	3.1000e-004	0.0295	1.3000e-004	0.0296	7.4800e-003	1.2000e-004	7.6000e-003	0.0000	30.1137	30.1137	1.9500e-003	0.0000	30.1624

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3.12 Street Improvement of Hazeltine Avenue - 2023

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0303	0.2970	0.2639	5.1000e-004		0.0134	0.0134		0.0125	0.0125	0.0000	44.1624	44.1624	0.0122	0.0000	44.4674
Total	0.0303	0.2970	0.2639	5.1000e-004		0.0134	0.0134		0.0125	0.0125	0.0000	44.1624	44.1624	0.0122	0.0000	44.4674

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	2.0500e-003	0.0656	0.0225	2.8000e-004	0.0275	1.2000e-004	0.0276	6.9500e-003	1.1000e-004	7.0600e-003	0.0000	28.0724	28.0724	1.8800e-003	0.0000	28.1194
Vendor	5.0000e-005	1.4900e-003	4.8000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4970	0.4970	3.0000e-005	0.0000	0.4977
Worker	6.4000e-004	4.6000e-004	5.3800e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5443	1.5443	4.0000e-005	0.0000	1.5453
Total	2.7400e-003	0.0675	0.0284	3.1000e-004	0.0295	1.3000e-004	0.0296	7.4800e-003	1.2000e-004	7.6000e-003	0.0000	30.1137	30.1137	1.9500e-003	0.0000	30.1624

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

3.13 Architectural Coating - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	1.4288					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-003	0.0296	0.0381	6.0000e-005	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	1.4331	0.0296	0.0381	6.0000e-005	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3500e-003	0.0433	0.0117	1.2000e-004	2.9100e-003	8.0000e-005	2.9900e-003	8.4000e-004	8.0000e-005	9.2000e-004	0.0000	11.2881	11.2881	6.7000e-004	0.0000	11.3050
Worker	3.7300e-003	2.8000e-003	0.0322	1.0000e-004	0.0101	8.0000e-005	0.0102	2.6900e-003	7.0000e-005	2.7600e-003	0.0000	8.8164	8.8164	2.4000e-004	0.0000	8.8225
Total	5.0800e-003	0.0461	0.0439	2.2000e-004	0.0130	1.6000e-004	0.0132	3.5300e-003	1.5000e-004	3.6800e-003	0.0000	20.1045	20.1045	9.1000e-004	0.0000	20.1274

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3.13 Architectural Coating - 2022
Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	1.4288					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-003	0.0296	0.0381	6.0000e-005	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	1.4331	0.0296	0.0381	6.0000e-005	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3500e-003	0.0433	0.0117	1.2000e-004	2.9100e-003	8.0000e-005	2.9900e-003	8.4000e-004	8.0000e-005	9.2000e-004	0.0000	11.2881	11.2881	6.7000e-004	0.0000	11.3050
Worker	3.7300e-003	2.8000e-003	0.0322	1.0000e-004	0.0101	8.0000e-005	0.0102	2.6900e-003	7.0000e-005	2.7600e-003	0.0000	8.8164	8.8164	2.4000e-004	0.0000	8.8225
Total	5.0800e-003	0.0461	0.0439	2.2000e-004	0.0130	1.6000e-004	0.0132	3.5300e-003	1.5000e-004	3.6800e-003	0.0000	20.1045	20.1045	9.1000e-004	0.0000	20.1274

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	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	0.1418	0.6365	0.6354	1.1200e-003	0.0273	1.2600e-003	0.0286	7.3200e-003	1.1700e-003	8.4900e-003	0.0000	106.3183	106.3183	0.0103	0.0000	106.5765
Unmitigated	0.1418	0.6365	0.6354	1.1200e-003	0.0273	1.2600e-003	0.0286	7.3200e-003	1.1700e-003	8.4900e-003	0.0000	106.3183	106.3183	0.0103	0.0000	106.5765

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00				
Enclosed Parking Structure	0.00	0.00	0.00				
General Light Industry	1,359.52	257.52	132.24	67,339	67,339	67,339	67,339
General Light Industry	93.76	17.76	9.12	4,644	4,644	4,644	4,644
General Office Building	0.00	0.00	0.00				
General Office Building	0.00	0.00	0.00				
Other Asphalt Surfaces	0.00	0.00	0.00				
Other Asphalt Surfaces	0.00	0.00	0.00				
Research & Development	0.00	0.00	0.00				
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00				
Total	1,453.28	275.28	141.36	71,983	71,983	71,983	71,983

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	0.19	0.19	0.19	59.00	28.00	13.00	92	5	3
General Light Industry	0.19	0.19	0.19	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Enclosed Parking Structure	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Office Building	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Other Asphalt Surfaces	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Research & Development	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Unrefrigerated Warehouse-No Rail	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

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
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1,419.6010	1,419.6010	0.0337	7.4900e-003	1,422.6755
Electricity Unmitigated						0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1,419.6010	1,419.6010	0.0337	7.4900e-003	1,422.6755
NaturalGas Mitigated	0.0192	0.1747	0.1467	1.0500e-003		0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	190.1545	190.1545	3.6400e-003	3.4900e-003	191.2845
NaturalGas Unmitigated	0.0192	0.1747	0.1467	1.0500e-003		0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	190.1545	190.1545	3.6400e-003	3.4900e-003	191.2845

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Automobile Care Center	162900	8.8000e-004	7.9900e-003	6.7100e-003	5.0000e-005	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	0.0000	8.6930	8.6930	1.7000e-004	1.6000e-004	8.7446
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	144800	7.8000e-004	7.1000e-003	5.9600e-003	4.0000e-005	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	0.0000	7.7271	7.7271	1.5000e-004	1.4000e-004	7.7730
General Light Industry +006	2.0996e+006	0.0113	0.1029	0.0865	6.2000e-004	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	0.0000	112.0427	112.0427	2.1500e-003	2.0500e-003	112.7085
General Office Building	31230	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Office Building	718290	3.8700e-003	0.0352	0.0296	2.1000e-004	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	0.0000	38.3307	38.3307	7.3000e-004	7.0000e-004	38.5585
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	343900	1.8500e-003	0.0169	0.0142	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	0.0000	18.3518	18.3518	3.5000e-004	3.4000e-004	18.4609
Unrefrigerated Warehouse-No Rail	62640	3.4000e-004	3.0700e-003	2.5800e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	0.0000	3.3427	3.3427	6.0000e-005	6.0000e-005	3.3626
Total		0.0192	0.1747	0.1467	1.0500e-003	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	190.1545	190.1545	3.6400e-003	3.4800e-003	191.2845

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Automobile Care Center	162900	8.8000e-004	7.9900e-003	6.7100e-003	5.0000e-005	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	0.0000	8.6930	8.6930	1.7000e-004	1.6000e-004	8.7446
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	144800	7.8000e-004	7.1000e-003	5.9600e-003	4.0000e-005	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	0.0000	7.7271	7.7271	1.5000e-004	1.4000e-004	7.7730
General Light Industry +006	2.0996e+006	0.0113	0.1029	0.0865	6.2000e-004	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	0.0000	112.0427	112.0427	2.1500e-003	2.0500e-003	112.7085
General Office Building	31230	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Office Building	718290	3.8700e-003	0.0352	0.0296	2.1000e-004	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	0.0000	38.3307	38.3307	7.3000e-004	7.0000e-004	38.5585
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	343900	1.8500e-003	0.0169	0.0142	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	0.0000	18.3518	18.3518	3.5000e-004	3.4000e-004	18.4609
Unrefrigerated Warehouse-No Rail	62640	3.4000e-004	3.0700e-003	2.5800e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	0.0000	3.3427	3.3427	6.0000e-005	6.0000e-005	3.3626
Total		0.0192	0.1747	0.1467	1.0500e-003	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	190.1545	190.1545	3.6400e-003	3.4800e-003	191.2845

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Automobile Care Center	99900	34.3552	8.2000e-004	1.8000e-004	34.4296
Enclosed Parking Structure	1.22472e+006	421.1758	0.0100	2.2200e-003	422.0880
General Light Industry	1.2876e+006	442.8000	0.0105	2.3400e-003	443.7590
General Light Industry	88800	30.5379	7.3000e-004	1.6000e-004	30.6041
General Office Building	38970	13.4016	3.2000e-004	7.0000e-005	13.4306
General Office Building	896310	308.2371	7.3200e-003	1.6300e-003	308.9046
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	210900	72.5276	1.7200e-003	3.8000e-004	72.6847
Unrefrigerated Warehouse-No Rail	280800	96.5659	2.2900e-003	5.1000e-004	96.7750
Total		1,419,601.0	0.0337	7.4900e-003	1,422,675.5

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Automobile Care Center	99900	34.3552	8.2000e-004	1.8000e-004	34.4296
Enclosed Parking Structure	1.22472e+006	421.1758	0.0100	2.2200e-003	422.0880
General Light Industry	1.2876e+006	442.8000	0.0105	2.3400e-003	443.7590
General Light Industry	88800	30.5379	7.3000e-004	1.6000e-004	30.6041
General Office Building	38970	13.4016	3.2000e-004	7.0000e-005	13.4306
General Office Building	896310	308.2371	7.3200e-003	1.6300e-003	308.9046
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	210900	72.5276	1.7200e-003	3.8000e-004	72.6847
Unrefrigerated Warehouse-No Rail	280800	96.5659	2.2900e-003	5.1000e-004	96.7750
Total		1,419,601.0	0.0337	7.4900e-003	1,422,675.5

6.0 Area Detail

6.1 Mitigation Measures Area

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

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
tons/yr																
MT/yr																
Mitigated	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Unmitigated	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MT/yr																
Architectural Coating	0.1429				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0960				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.3000e-004	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Total	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

SubCategory	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Architectural Coating	0.1429					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.3000e-004	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0000	0.0186
Total	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0000	0.0186

7.0 Water Detail

7.1 Mitigation Measures Water

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	359.5073	2.2339	0.0543	431.5491
Unmitigated	359.5073	2.2339	0.0543	431.5491

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	6.0430	0.0277	6.8000e-004	6.9394
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	28.675 / 0	137.5000	0.9374	0.0227	167.7122
General Office Building	12.7968 / 7.84322	91.3287	0.4191	0.0103	104.8765
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	9.34219 / 0	44.7969	0.3054	7.4100e-003	54.6399
Unrefrigerated Warehouse-No Rail	16.65 / 0	79.8387	0.5443	0.0132	97.3813
Total		359.5073	2.2339	0.0543	431.5491

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	6.0430	0.0277	6.8000e-004	6.9394
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	28.675 / 0	137.5000	0.9374	0.0227	167.7122
General Office Building	12.7968 / 7.84322	91.3287	0.4191	0.0103	104.8765
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	9.34219 / 0	44.7969	0.3054	7.4100e-003	54.6399
Unrefrigerated Warehouse-No Rail	16.65 / 0	79.8387	0.5443	0.0132	97.3813
Total		359.5073	2.2339	0.0543	431.5491

8.0 Waste Detail

8.1 Mitigation Measures Waste

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	65.8137	3.8895	0.0000	163.0507
Unmitigated	65.8137	3.8895	0.0000	163.0507

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Automobile Care Center	34.38	6.9788	0.4124	0.0000	17.2898
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	153.76	31.2119	1.8446	0.0000	77.3261
General Office Building	66.96	13.5923	0.8033	0.0000	33.6743
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	1.44	0.2923	0.0173	0.0000	0.7242
Unrefrigerated Warehouse-No Rail	67.68	13.7384	0.8119	0.0000	34.0364
Total		65.8137	3.8895	0.0000	163.0507

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Automobile Care Center	34.38	6.9788	0.4124	0.0000	17.2898
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	153.76	31.2119	1.8446	0.0000	77.3261
General Office Building	66.96	13.5923	0.8033	0.0000	33.6743
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	1.44	0.2923	0.0173	0.0000	0.7242
Unrefrigerated Warehouse-No Rail	67.68	13.7384	0.8119	0.0000	34.0364
Total		65.8137	3.8895	0.0000	163.0507

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	10	4.00	260	89	0.20	Diesel

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Annual

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Forklifts	0.0565	0.5321	0.7369	9.9000e-004	0.0285	0.0285	0.0285	0.0262	0.0262	0.0262	0.0000	87.2894	87.2894	0.0282	0.0000	87.9951
Total	0.0565	0.5321	0.7369	9.9000e-004	0.0285	0.0285	0.0285	0.0262	0.0262	0.0262	0.0000	87.2894	87.2894	0.0282	0.0000	87.9951

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

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

Mid Valley Water Facility Unmitigated
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	69.00	1000sqft	1.58	69,000.00	0
General Office Building	3.00	1000sqft	0.07	3,000.00	0
Research & Development	19.00	1000sqft	0.44	19,000.00	0
General Light Industry	116.00	1000sqft	2.66	116,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Unrefrigerated Warehouse-No Rail	72.00	1000sqft	1.65	72,000.00	0
Enclosed Parking Structure	216.00	1000sqft	4.96	216,000.00	0
Other Asphalt Surfaces	181.00	1000sqft	4.16	181,000.00	0
Other Asphalt Surfaces	12.00	1000sqft	0.28	12,000.00	0
Automobile Care Center	9.00	1000sqft	0.21	9,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2026

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	758.16	CH4 Intensity (lb/MW/hr)	0.018	N2O Intensity (lb/MW/hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

Project Characteristics - Los Angeles Department of Water and Power adjusted for 43.2% RPS in 2026

Land Use -

Construction Phase - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Grading - Data provided by applicant.

Trips and VMT - Data provided by applicant.

Vehicle Trips - Data provided by Traffic Report.

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Data provided by applicant.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	42.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

tblConstructionPhase	NumDays	300.00	22.00
tblConstructionPhase	NumDays	300.00	108.00
tblConstructionPhase	NumDays	30.00	130.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	300.00	195.00
tblConstructionPhase	NumDays	300.00	238.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	300.00	238.00
tblGrading	AcresOfGrading	325.00	6.57
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
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tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts

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tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Welders
tbIOffRoadEquipment	OffRoadEquipmentType	Generator Sets
tbIOffRoadEquipment	OffRoadEquipmentType	Cranes
tbIOffRoadEquipment	OffRoadEquipmentType	Cement and Mortar Mixers
tbIOffRoadEquipment	OffRoadEquipmentType	Paving Equipment
tbIOffRoadEquipment	OffRoadEquipmentType	Forklifts
tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Welders
tbIOffRoadEquipment	OffRoadEquipmentType	Generator Sets
tbIOffRoadEquipment	OffRoadEquipmentType	Cranes
tbIOffRoadEquipment	OffRoadEquipmentType	Forklifts
tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Welders
tbIOffRoadEquipment	OffRoadEquipmentType	Generator Sets
tbIOffRoadEquipment	OffRoadEquipmentType	Cranes
tbIOffRoadEquipment	OffRoadEquipmentType	Forklifts
tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Pavers
tbIOffRoadEquipment	OffRoadEquipmentType	Rollers
tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Paving Equipment
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00
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tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00
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tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tbIOffRoadEquipment	UsageHours	7.00	8.00
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tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
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tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00

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tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	4.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
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tbIProjectCharacteristics	CO2IntensityFactor	1227.89	758.16
tbIProjectCharacteristics	N2OIntensityFactor	0.006	0.004
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tblVehicleTrips	ST_TR	1.32	2.22
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tblVehicleTrips	WD_TR	8.11	0.00
tblVehicleTrips	WD_TR	1.68	0.00

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2.0 Emissions Summary

**2.1 Overall Construction
Unmitigated Construction**

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2020	0.1041	1.3174	0.6631	1.9100e-003	0.3428	0.0492	0.3921	0.1630	0.0453	0.2084	0.0000	176.3897	176.3897	0.0364	0.0000	177.3001
2021	0.8245	8.2749	6.4427	0.0153	0.5367	0.3341	0.8708	0.2344	0.3143	0.5487	0.0000	1,368.8108	1,368.8108	0.2494	0.0000	1,375.0456
2022	2.3690	8.1161	7.9973	0.0165	0.2391	0.3525	0.5916	0.0644	0.3347	0.3991	0.0000	1,440.3464	1,440.3464	0.2493	0.0000	1,446.5797
2023	0.0330	0.3645	0.2923	8.1000e-004	0.0295	0.0135	0.0430	7.4700e-003	0.0126	0.0201	0.0000	74.2762	74.2762	0.0142	0.0000	74.6299
Maximum	2.3690	8.2749	7.9973	0.0165	0.5367	0.3525	0.8708	0.2344	0.3347	0.5487	0.0000	1,440.3464	1,440.3464	0.2494	0.0000	1,446.5797

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**2.1 Overall Construction
Mitigated Construction**

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2020	0.1041	1.3174	0.6631	1.9100e-003	0.1827	0.0492	0.2320	0.0760	0.0453	0.1213	0.0000	176.3896	176.3896	0.0364	0.0000	177.3000
2021	0.8245	8.2749	6.4427	0.0153	0.3380	0.3341	0.6721	0.1261	0.3143	0.4404	0.0000	1,368.8097	1,368.8097	0.2494	0.0000	1,375.0446
2022	2.3690	8.1161	7.9973	0.0165	0.2391	0.3525	0.5916	0.0644	0.3347	0.3991	0.0000	1,440.3452	1,440.3452	0.2493	0.0000	1,446.5784
2023	0.0330	0.3645	0.2923	8.1000e-004	0.0295	0.0135	0.0430	7.4700e-003	0.0126	0.0201	0.0000	74.2761	74.2761	0.0142	0.0000	74.6298
Maximum	2.3690	8.2749	7.9973	0.0165	0.3380	0.3525	0.6721	0.1261	0.3347	0.4404	0.0000	1,440.3452	1,440.3452	0.2494	0.0000	1,446.5784

Percent Reduction	tons/quarter										tons/quarter					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
0.00	0.00	0.00	0.00	0.00	31.25	0.00	18.91	41.62	0.00	16.61	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOx (tons/quarter)	Maximum Mitigated ROG + NOx (tons/quarter)
1	11-1-2020	1-31-2021	2.2173	2.2173
2	2-1-2021	4-30-2021	2.3670	2.3670
3	5-1-2021	7-31-2021	1.2257	1.2257
4	8-1-2021	10-31-2021	2.3691	2.3691
5	11-1-2021	1-31-2022	3.2968	3.2968
6	2-1-2022	4-30-2022	2.9907	2.9907
7	5-1-2022	7-31-2022	2.6197	2.6197
8	8-1-2022	10-31-2022	2.8954	2.8954

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9	11-1-2022	1-31-2023	1.3901	1.3901
		Highest	3.2968	3.2968

**2.2 Overall Operational
Unmitigated Operational**

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	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	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Energy	0.0192	0.1747	0.1467	1.0500e-003	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	1,609.7555	1,609.7555	0.0374	0.0110	1,613.9600
Mobile	0.3059	1.5012	4.5599	0.0197	1.8442	0.0146	1.8588	0.4942	0.0136	0.5078	0.0000	1,820.7965	1,820.7965	0.0807	0.0000	1,822.8141
Offroad	0.0568	0.5347	0.7406	1.0000e-003	0.0286	0.0286	0.0286	0.0263	0.0263	0.0263	0.0000	87.7258	87.7258	0.0284	0.0000	88.4351
Waste					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	65.8137	0.0000	65.8137	3.8895	0.0000	163.0507
Water					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	21.6719	337.8355	359.5073	2.2339	0.0543	431.5491
Total	1.6216	2.2107	5.4562	0.0217	1.8442	0.0566	1.9007	0.4942	0.0532	0.5474	87.4856	3,856.1308	3,943.6163	6.2699	0.0653	4,119.8276

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2.2 Overall Operational Mitigated Operational

Category	tons/yr											MT/yr					
	ROG	NOx	CO	SO2	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	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186	
Energy	0.0192	0.1747	0.1467	1.0500e-003	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	1.609755	1.609755	0.0374	0.0110	1.613960	
Mobile	0.3059	1.5012	4.5599	0.0197	1.8442	0.0146	1.8588	0.4942	0.0136	0.5078	0.0000	1.820796	1.820796	0.0807	0.0000	1.822814	
Offroad	0.0568	0.5347	0.7406	1.0000e-003	0.0286	0.0286	0.0286	0.0263	0.0263	0.0263	0.0000	87.7258	87.7258	0.0284	0.0000	88.4351	
Waste						0.0000	0.0000	0.0000	0.0000	0.0000	65.8137	0.0000	65.8137	3.8895	0.0000	163.0507	
Water						0.0000	0.0000	0.0000	0.0000	0.0000	21.6719	337.8355	359.5073	2.2339	0.0543	431.5491	
Total	1.6216	2.2107	5.4562	0.0217	1.8442	0.0566	1.9007	0.4942	0.0532	0.5474	87.4866	3,856.130	3,943.616	6.2699	0.0653	4,119.827	

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/1/2020	11/30/2020	5	21	
2	Grading	Grading	12/1/2020	5/31/2021	5	130	
3	Perimeter Walls Construction	Building Construction	7/1/2021	7/30/2021	5	22	
4	Paving & Site Infrastructure	Paving	8/1/2021	8/21/2021	5	15	
5	Street Improvement of Hazeltine Avenue	Building Construction	9/1/2022	1/30/2023	5	108	
6	Architectural Coating	Architectural Coating	9/1/2022	10/30/2022	5	42	
7	Trenching & Underground Utilities	Trenching	7/1/2021	7/30/2021	5	22	
8	Office Building & Staff Parking	Building Construction	9/1/2021	5/31/2022	5	195	
9	Water Distribution Shop and Maintenance Building	Building Construction	9/1/2021	7/30/2022	5	238	
10	Department Fleet Vehicles Parking	Building Construction	9/1/2021	8/31/2022	5	261	
11	Supply Chain Services Warehouse	Building Construction	9/1/2021	8/31/2022	5	261	
12	Fleet Maintenance Building and CNG Dispensing Area	Building Construction	9/1/2021	7/30/2022	5	238	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.57

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 444,000; Non-Residential Outdoor: 148,000; Striped Parking Area: 24,540 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Office Building & Staff Parking	Cranes	1	4.00	231	0.29
Office Building & Staff Parking	Forklifts	2	6.00	89	0.20
Office Building & Staff Parking	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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Office Building & Staff Parking	Forklifts	2	7.00	89	0.20
Office Building & Staff Parking	Generator Sets	1	8.00	84	0.74
Office Building & Staff Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Office Building & Staff Parking	Welders	3	8.00	46	0.45
Water Distribution Shop and Maintenance Building	Cranes	1	8.00	231	0.29
Water Distribution Shop and Maintenance Building	Forklifts	2	7.00	89	0.20
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Perimeter Walls Construction	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Perimeter Walls Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Street Improvement of Hazeltine Avenue	Excavators	1	8.00	158	0.38
Street Improvement of Hazeltine Avenue	Graders	1	8.00	187	0.41
Street Improvement of Hazeltine Avenue	Rubber Tired Dozers	1	8.00	247	0.40
Trenching & Underground Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching & Underground Utilities	Plate Compactors	1	8.00	8	0.43
Trenching & Underground Utilities	Trenchers	1	8.00	78	0.50
Water Distribution Shop and Maintenance Building	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Water Distribution Shop and Maintenance Building	Welders	3	8.00	46	0.45
Water Distribution Shop and Maintenance Building	Generator Sets	1	8.00	84	0.74
Department Fleet Vehicles Parking	Cranes	1	8.00	231	0.29
Department Fleet Vehicles Parking	Forklifts	2	7.00	89	0.20

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Department Fleet Vehicles Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Department Fleet Vehicles Parking	Welders	3	8.00	46	0.45
Paving & Site Infrastructure	Pavers	2	8.00	130	0.42
Department Fleet Vehicles Parking	Generator Sets	1	8.00	84	0.74
Supply Chain Services Warehouse	Cranes	1	6.00	231	0.29
Architectural Coating	Air Compressors	1	6.00	78	0.48
Supply Chain Services Warehouse	Forklifts	1	6.00	89	0.20
Supply Chain Services Warehouse	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Supply Chain Services Warehouse	Welders	3	8.00	46	0.45
Street Improvement of Hazeltine Avenue	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Supply Chain Services Warehouse	Generator Sets	1	8.00	84	0.74
Perimeter Walls Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Perimeter Walls Construction	Paving Equipment	1	8.00	132	0.36
Fleet Maintenance Building and CNG Dispensing Area	Cranes	1	4.00	231	0.29
Fleet Maintenance Building and CNG Dispensing Area	Forklifts	2	6.00	89	0.20
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Pavers	1	6.00	130	0.42
Fleet Maintenance Building and CNG Dispensing Area	Rollers	1	7.00	80	0.38
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Paving Equipment	1	8.00	132	0.36
Perimeter Walls Construction	Cranes	1	7.00	231	0.29
Street Improvement of Hazeltine Avenue	Cranes	1	7.00	231	0.29
Perimeter Walls Construction	Forklifts	3	8.00	89	0.20
Street Improvement of Hazeltine Avenue	Forklifts	3	8.00	89	0.20
Fleet Maintenance Building and CNG Dispensing Area	Generator Sets	1	8.00	84	0.74

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Perimeter Walls Construction	Generator Sets	1	8.00	84	0.74
Street Improvement of Hazeltine Avenue	Generator Sets	1	8.00	84	0.74
Paving & Site Infrastructure	Paving Equipment	2	8.00	132	0.36
Paving & Site Infrastructure	Rollers	2	8.00	80	0.38
Grading	Scrapers	2	8.00	367	0.48
Perimeter Walls Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Welders	1	8.00	46	0.45
Perimeter Walls Construction	Welders	1	8.00	46	0.45
Street Improvement of Hazeltine Avenue	Welders	1	8.00	46	0.45

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	2.00	11,118.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Site Infrastructure	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvement of Hazeltine Avenue	12	16.00	2.00	4,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Department Fleet Vehicles Parking	8	68.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Supply Chain Services Warehouse	7	28.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fleet Maintenance Building and CNG Dis	11	16.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching & Underground Utilities	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Office Building & Staff Parking	12	18.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Water Distribution System and Maintenance	8	48.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Site Preparation - 2020
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.1897	0.0000	0.1897	0.1043	0.0000	0.1043	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4454	0.2259	4.0000e-004	0.0231	0.0231	0.0231	0.0212	0.0212	0.0212	0.0000	35.1022	35.1022	0.0114	0.0000	35.3860
Total	0.0428	0.4454	0.2259	4.0000e-004	0.1897	0.0231	0.2128	0.1043	0.0212	0.1255	0.0000	35.1022	35.1022	0.0114	0.0000	35.3860

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	2.2800e-003	6.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5217	0.5217	3.0000e-005	0.0000	0.5225
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	9.5000e-004	2.9800e-003	8.4000e-003	3.0000e-005	2.2000e-003	3.0000e-005	2.2300e-003	5.9000e-004	3.0000e-005	6.2000e-004	0.0000	2.4521	2.4521	9.0000e-005	0.0000	2.4544

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3.2 Site Preparation - 2020

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0740	0.0000	0.0740	0.0407	0.0000	0.0407	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4454	0.2259	4.0000e-004	0.0231	0.0231	0.0231	0.0212	0.0212	0.0212	0.0000	35.1022	35.1022	0.0114	0.0000	35.3860
Total	0.0428	0.4454	0.2259	4.0000e-004	0.0740	0.0231	0.0971	0.0407	0.0212	0.0619	0.0000	35.1022	35.1022	0.0114	0.0000	35.3860

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	2.2800e-003	6.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5217	0.5217	3.0000e-005	0.0000	0.5225
Worker	8.7000e-004	7.0000e-004	7.7800e-003	2.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.9304	1.9304	6.0000e-005	0.0000	1.9319
Total	9.5000e-004	2.9800e-003	8.4000e-003	3.0000e-005	2.2000e-003	3.0000e-005	2.2300e-003	5.9000e-004	3.0000e-005	6.2000e-004	0.0000	2.4521	2.4521	9.0000e-005	0.0000	2.4544

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3.3 Grading - 2020

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0727	0.0000	0.0727	0.0384	0.0000	0.0384	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0508	0.5737	0.3562	6.9000e-004	0.0252	0.0252	0.0252	0.0232	0.0232	0.0232	0.0000	60.5772	60.5772	0.0196	0.0000	61.0670
Total	0.0508	0.5737	0.3562	6.9000e-004	0.0727	0.0252	0.0979	0.0384	0.0232	0.0616	0.0000	60.5772	60.5772	0.0196	0.0000	61.0670

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	8.6800e-003	0.2921	0.0644	7.7000e-004	0.0760	9.1000e-004	0.0769	0.0192	8.7000e-004	0.0200	0.0000	75.8076	75.8076	5.2800e-003	0.0000	75.9396
Vendor	8.0000e-005	2.4900e-003	6.7000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5714	0.5714	4.0000e-005	0.0000	0.5723
Worker	8.5000e-004	6.8000e-004	7.5700e-003	2.0000e-005	2.0200e-003	2.0000e-005	2.0300e-003	5.4000e-004	2.0000e-005	5.5000e-004	0.0000	1.8793	1.8793	6.0000e-005	0.0000	1.8808
Total	9.6100e-003	0.2952	0.0726	8.0000e-004	0.0782	9.4000e-004	0.0791	0.0197	9.0000e-004	0.0206	0.0000	78.2583	78.2583	5.3800e-003	0.0000	78.3927

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3.3 Grading - 2020

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0284	0.0000	0.0284	0.0150	0.0000	0.0150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0508	0.5737	0.3562	6.9000e-004	0.0252	0.0252	0.0252	0.0232	0.0232	0.0232	0.0000	60.5771	60.5771	0.0196	0.0000	61.0669
Total	0.0508	0.5737	0.3562	6.9000e-004	0.0284	0.0252	0.0536	0.0150	0.0232	0.0382	0.0000	60.5771	60.5771	0.0196	0.0000	61.0669

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	8.6800e-003	0.2921	0.0644	7.7000e-004	0.0760	9.1000e-004	0.0769	0.0192	8.7000e-004	0.0200	0.0000	75.8076	75.8076	5.2800e-003	0.0000	75.9396
Vendor	8.0000e-005	2.4900e-003	6.7000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5714	0.5714	4.0000e-005	0.0000	0.5723
Worker	8.5000e-004	6.8000e-004	7.5700e-003	2.0000e-005	2.0200e-003	2.0000e-005	2.0300e-003	5.4000e-004	2.0000e-005	5.5000e-004	0.0000	1.8793	1.8793	6.0000e-005	0.0000	1.8808
Total	9.6100e-003	0.2952	0.0726	8.0000e-004	0.0782	9.4000e-004	0.0791	0.0197	9.0000e-004	0.0206	0.0000	78.2583	78.2583	5.3800e-003	0.0000	78.3927

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3.3 Grading - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.3257	0.0000	0.3257	0.1775	0.0000	0.1775	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2220	2.4686	1.5979	3.2100e-003	0.1066	0.1066	0.1066	0.0981	0.0981	0.0981	0.0000	281.8756	281.8756	0.0912	0.0000	284.1548
Total	0.2220	2.4686	1.5979	3.2100e-003	0.3257	0.1066	0.4323	0.1775	0.0981	0.2756	0.0000	281.8756	281.8756	0.0912	0.0000	284.1548

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0385	1.2666	0.2953	3.5400e-003	0.0914	3.7900e-003	0.0951	0.0247	3.6300e-003	0.0283	0.0000	348.7875	348.7875	0.0242	0.0000	349.3927
Vendor	3.3000e-004	0.0106	2.8600e-003	3.0000e-005	6.7000e-004	2.0000e-005	7.0000e-004	1.9000e-004	2.0000e-005	2.2000e-004	0.0000	2.6375	2.6375	1.6000e-004	0.0000	2.6416
Worker	3.6800e-003	2.8700e-003	0.0324	9.0000e-005	9.3800e-003	8.0000e-005	9.4600e-003	2.4900e-003	7.0000e-005	2.5600e-003	0.0000	8.4651	8.4651	2.5000e-004	0.0000	8.4714
Total	0.0426	1.2800	0.3306	3.6600e-003	0.1014	3.8900e-003	0.1053	0.0274	3.7200e-003	0.0311	0.0000	359.8901	359.8901	0.0246	0.0000	360.5056

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3.3 Grading - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.1270	0.0000	0.1270	0.0692	0.0000	0.0692	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2220	2.4686	1.5979	3.2100e-003	0.1066	0.1066	0.1066	0.0981	0.0981	0.0981	0.0000	281.8753	281.8753	0.0912	0.0000	284.1544
Total	0.2220	2.4686	1.5979	3.2100e-003	0.1270	0.1066	0.2336	0.0692	0.0981	0.1673	0.0000	281.8753	281.8753	0.0912	0.0000	284.1544

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0385	1.2666	0.2953	3.5400e-003	0.0914	3.7900e-003	0.0951	0.0247	3.6300e-003	0.0283	0.0000	348.7875	348.7875	0.0242	0.0000	349.3927
Vendor	3.3000e-004	0.0106	2.8600e-003	3.0000e-005	6.7000e-004	2.0000e-005	7.0000e-004	1.9000e-004	2.0000e-005	2.2000e-004	0.0000	2.6375	2.6375	1.6000e-004	0.0000	2.6416
Worker	3.6800e-003	2.8700e-003	0.0324	9.0000e-005	9.3800e-003	8.0000e-005	9.4600e-003	2.4900e-003	7.0000e-005	2.5600e-003	0.0000	8.4651	8.4651	2.5000e-004	0.0000	8.4714
Total	0.0426	1.2800	0.3306	3.6600e-003	0.1014	3.8900e-003	0.1053	0.0274	3.7200e-003	0.0311	0.0000	359.8901	359.8901	0.0246	0.0000	360.5056

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3.4 Perimeter Walls Construction - 2021
Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0307	0.2838	0.2769	5.2000e-004		0.0147	0.0147		0.0139	0.0139	0.0000	44.9362	44.9362	0.0108	0.0000	45.2052
Total	0.0307	0.2838	0.2769	5.2000e-004		0.0147	0.0147		0.0139	0.0139	0.0000	44.9362	44.9362	0.0108	0.0000	45.2052

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.3400e-003	1.1800e-003	1.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	1.0846	1.0846	7.0000e-005	0.0000	1.0863
Worker	2.8000e-004	2.2000e-004	2.5000e-003	1.0000e-005	1.9800e-003	1.0000e-005	1.9800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	0.6527	0.6527	2.0000e-005	0.0000	0.6532
Total	4.2000e-004	4.5600e-003	3.6800e-003	2.0000e-005	2.6500e-003	2.0000e-005	2.6600e-003	6.8000e-004	2.0000e-005	6.9000e-004	0.0000	1.7373	1.7373	9.0000e-005	0.0000	1.7394

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3.4 Perimeter Walls Construction - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0307	0.2838	0.2769	5.2000e-004		0.0147	0.0147		0.0139	0.0139	0.0000	44.9362	44.9362	0.0108	0.0000	45.2052
Total	0.0307	0.2838	0.2769	5.2000e-004		0.0147	0.0147		0.0139	0.0139	0.0000	44.9362	44.9362	0.0108	0.0000	45.2052

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.3400e-003	1.1800e-003	1.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	1.0846	1.0846	7.0000e-005	0.0000	1.0863
Worker	2.8000e-004	2.2000e-004	2.5000e-003	1.0000e-005	1.9800e-003	1.0000e-005	1.9800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	0.6527	0.6527	2.0000e-005	0.0000	0.6532
Total	4.2000e-004	4.5600e-003	3.6800e-003	2.0000e-005	2.6500e-003	2.0000e-005	2.6600e-003	6.8000e-004	2.0000e-005	6.9000e-004	0.0000	1.7373	1.7373	9.0000e-005	0.0000	1.7394

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3.5 Paving & Site Infrastructure - 2021
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	9.4200e-003	0.0969	0.1099	1.7000e-004	5.0800e-003	5.0800e-003	5.0800e-003	4.6800e-003	4.6800e-003	4.6800e-003	0.0000	15.0176	15.0176	4.8600e-003	0.0000	15.1390
Paving	5.8200e-003				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0152	0.0969	0.1099	1.7000e-004	5.0800e-003	5.0800e-003	5.0800e-003	4.6800e-003	4.6800e-003	4.6800e-003	0.0000	15.0176	15.0176	4.8600e-003	0.0000	15.1390

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.9600e-003	8.0000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7395	0.7395	5.0000e-005	0.0000	0.7406
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	6.1000e-004	3.3600e-003	5.3400e-003	2.0000e-005	1.5000e-003	2.0000e-005	1.5300e-003	4.0000e-004	2.0000e-005	4.2000e-004	0.0000	1.9262	1.9262	8.0000e-005	0.0000	1.9282

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.5 Paving & Site Infrastructure - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	9.4200e-003	0.0969	0.1099	1.7000e-004	5.0800e-003	5.0800e-003	5.0800e-003	4.6800e-003	4.6800e-003	4.6800e-003	0.0000	15.0176	15.0176	4.8600e-003	0.0000	15.1390
Paving	5.8200e-003				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0152	0.0969	0.1099	1.7000e-004	5.0800e-003	5.0800e-003	5.0800e-003	4.6800e-003	4.6800e-003	4.6800e-003	0.0000	15.0176	15.0176	4.8600e-003	0.0000	15.1390

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.9600e-003	8.0000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7395	0.7395	5.0000e-005	0.0000	0.7406
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	6.1000e-004	3.3600e-003	5.3400e-003	2.0000e-005	1.5000e-003	2.0000e-005	1.5300e-003	4.0000e-004	2.0000e-005	4.2000e-004	0.0000	1.9262	1.9262	8.0000e-005	0.0000	1.9282

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.6 Street Improvement of Hazeltine Avenue - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1402	1.3951	1.1206	2.1100e-003		0.0658	0.0658	0.0613	0.0613	0.0613	0.0000	182.9336	182.9336	0.0507	0.0000	184.2014
Total	0.1402	1.3951	1.1206	2.1100e-003		0.0658	0.0658	0.0613	0.0613	0.0613	0.0000	182.9336	182.9336	0.0507	0.0000	184.2014

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0129	0.4139	0.1028	1.2300e-003	0.0327	1.1600e-003	0.0339	8.8400e-003	1.1100e-003	9.9500e-003	0.0000	121.3539	121.3539	8.3900e-003	0.0000	121.5637
Vendor	2.5000e-004	8.1600e-003	2.2000e-003	2.0000e-005	5.5000e-004	2.0000e-005	5.6000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	2.1257	2.1257	1.3000e-004	0.0000	2.1289
Worker	2.8100e-003	2.1100e-003	0.0243	7.0000e-005	7.6300e-003	6.0000e-005	7.6900e-003	2.0300e-003	6.0000e-005	2.0800e-003	0.0000	6.6409	6.6409	1.8000e-004	0.0000	6.6455
Total	0.0160	0.4242	0.1293	1.3200e-003	0.0409	1.2400e-003	0.0421	0.0110	1.1800e-003	0.0122	0.0000	130.1205	130.1205	8.7000e-003	0.0000	130.3381

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.6 Street Improvement of Hazeltine Avenue - 2022

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1402	1.3951	1.1206	2.1100e-003		0.0658	0.0658		0.0613	0.0613	0.0000	182.9334	182.9334	0.0507	0.0000	184.2012
Total	0.1402	1.3951	1.1206	2.1100e-003		0.0658	0.0658		0.0613	0.0613	0.0000	182.9334	182.9334	0.0507	0.0000	184.2012

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0129	0.4139	0.1028	1.2300e-003	0.0327	1.1600e-003	0.0339	8.8400e-003	1.1100e-003	9.9500e-003	0.0000	121.3539	121.3539	8.3900e-003	0.0000	121.5637
Vendor	2.5000e-004	8.1600e-003	2.2000e-003	2.0000e-005	5.5000e-004	2.0000e-005	5.6000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	2.1257	2.1257	1.3000e-004	0.0000	2.1289
Worker	2.8100e-003	2.1100e-003	0.0243	7.0000e-005	7.6300e-003	6.0000e-005	7.6900e-003	2.0300e-003	6.0000e-005	2.0800e-003	0.0000	6.6409	6.6409	1.8000e-004	0.0000	6.6455
Total	0.0160	0.4242	0.1293	1.3200e-003	0.0409	1.2400e-003	0.0421	0.0110	1.1800e-003	0.0122	0.0000	130.1205	130.1205	8.7000e-003	0.0000	130.3381

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.6 Street Improvement of Hazeltine Avenue - 2023

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0303	0.2970	0.2639	5.1000e-004		0.0134	0.0134		0.0125	0.0125	0.0000	44.1624	44.1624	0.0122	0.0000	44.4675
Total	0.0303	0.2970	0.2639	5.1000e-004		0.0134	0.0134		0.0125	0.0125	0.0000	44.1624	44.1624	0.0122	0.0000	44.4675

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	2.0500e-003	0.0656	0.0225	2.8000e-004	0.0275	1.2000e-004	0.0276	6.9500e-003	1.1000e-004	7.0600e-003	0.0000	28.0724	28.0724	1.8800e-003	0.0000	28.1194
Vendor	5.0000e-005	1.4900e-003	4.8000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4970	0.4970	3.0000e-005	0.0000	0.4977
Worker	6.4000e-004	4.6000e-004	5.3800e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5443	1.5443	4.0000e-005	0.0000	1.5453
Total	2.7400e-003	0.0675	0.0284	3.1000e-004	0.0295	1.3000e-004	0.0296	7.4800e-003	1.2000e-004	7.6000e-003	0.0000	30.1137	30.1137	1.9500e-003	0.0000	30.1624

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.6 Street Improvement of Hazeltine Avenue - 2023

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0303	0.2970	0.2639	5.1000e-004		0.0134	0.0134		0.0125	0.0125	0.0000	44.1624	44.1624	0.0122	0.0000	44.4674
Total	0.0303	0.2970	0.2639	5.1000e-004		0.0134	0.0134		0.0125	0.0125	0.0000	44.1624	44.1624	0.0122	0.0000	44.4674

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	2.0500e-003	0.0656	0.0225	2.8000e-004	0.0275	1.2000e-004	0.0276	6.9500e-003	1.1000e-004	7.0600e-003	0.0000	28.0724	28.0724	1.8800e-003	0.0000	28.1194
Vendor	5.0000e-005	1.4900e-003	4.8000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4970	0.4970	3.0000e-005	0.0000	0.4977
Worker	6.4000e-004	4.6000e-004	5.3800e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5443	1.5443	4.0000e-005	0.0000	1.5453
Total	2.7400e-003	0.0675	0.0284	3.1000e-004	0.0295	1.3000e-004	0.0296	7.4800e-003	1.2000e-004	7.6000e-003	0.0000	30.1137	30.1137	1.9500e-003	0.0000	30.1624

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.7 Architectural Coating - 2022
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	1.4288					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-003	0.0296	0.0381	6.0000e-005	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	1.4331	0.0296	0.0381	6.0000e-005	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3500e-003	0.0433	0.0117	1.2000e-004	2.9100e-003	8.0000e-005	2.9900e-003	8.4000e-004	8.0000e-005	9.2000e-004	0.0000	11.2881	11.2881	6.7000e-004	0.0000	11.3050
Worker	3.7300e-003	2.8000e-003	0.0322	1.0000e-004	0.0101	8.0000e-005	0.0102	2.6900e-003	7.0000e-005	2.7600e-003	0.0000	8.8164	8.8164	2.4000e-004	0.0000	8.8225
Total	5.0800e-003	0.0461	0.0439	2.2000e-004	0.0130	1.6000e-004	0.0132	3.5300e-003	1.5000e-004	3.6800e-003	0.0000	20.1045	20.1045	9.1000e-004	0.0000	20.1274

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.7 Architectural Coating - 2022
Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	1.4288					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-003	0.0296	0.0381	6.0000e-005	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	1.4331	0.0296	0.0381	6.0000e-005	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3500e-003	0.0433	0.0117	1.2000e-004	2.9100e-003	8.0000e-005	2.9900e-003	8.4000e-004	8.0000e-005	9.2000e-004	0.0000	11.2881	11.2881	6.7000e-004	0.0000	11.3050
Worker	3.7300e-003	2.8000e-003	0.0322	1.0000e-004	0.0101	8.0000e-005	0.0102	2.6900e-003	7.0000e-005	2.7600e-003	0.0000	8.8164	8.8164	2.4000e-004	0.0000	8.8225
Total	5.0800e-003	0.0461	0.0439	2.2000e-004	0.0130	1.6000e-004	0.0132	3.5300e-003	1.5000e-004	3.6800e-003	0.0000	20.1045	20.1045	9.1000e-004	0.0000	20.1274

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.8 Trenching & Underground Utilities - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	8.7700e-003	0.0831	0.0807	1.1000e-004	5.3700e-003	5.3700e-003	5.3700e-003	4.9500e-003	4.9500e-003	4.9500e-003	0.0000	9.6118	9.6118	3.0300e-003	0.0000	9.6877
Total	8.7700e-003	0.0831	0.0807	1.1000e-004	5.3700e-003	5.3700e-003	5.3700e-003	4.9500e-003	4.9500e-003	4.9500e-003	0.0000	9.6118	9.6118	3.0300e-003	0.0000	9.6877

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.1700e-003	5.9000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5423	0.5423	3.0000e-005	0.0000	0.5431
Worker	4.7000e-004	3.7000e-004	4.1600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.0000e-005	3.3000e-004	0.0000	1.0878	1.0878	3.0000e-005	0.0000	1.0886
Total	5.4000e-004	2.5400e-003	4.7500e-003	2.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.6301	1.6301	6.0000e-005	0.0000	1.6317

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.8 Trenching & Underground Utilities - 2021
Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	8.7700e-003	0.0831	0.0807	1.1000e-004	5.3700e-003	5.3700e-003	5.3700e-003	4.9500e-003	4.9500e-003	4.9500e-003	0.0000	9.6118	9.6118	3.0300e-003	0.0000	9.6876
Total	8.7700e-003	0.0831	0.0807	1.1000e-004	5.3700e-003	5.3700e-003	5.3700e-003	4.9500e-003	4.9500e-003	4.9500e-003	0.0000	9.6118	9.6118	3.0300e-003	0.0000	9.6876

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.1700e-003	5.9000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5423	0.5423	3.0000e-005	0.0000	0.5431
Worker	4.7000e-004	3.7000e-004	4.1600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0878	1.0878	3.0000e-005	0.0000	1.0886
Total	5.4000e-004	2.5400e-003	4.7500e-003	2.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.6301	1.6301	6.0000e-005	0.0000	1.6317

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.9 Office Building & Staff Parking - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1059	0.8432	0.8731	1.3500e-003		0.0470	0.0470		0.0446	0.0446	0.0000	113.0989	113.0989	0.0250	0.0000	113.7240
Total	0.1059	0.8432	0.8731	1.3500e-003		0.0470	0.0470		0.0446	0.0446	0.0000	113.0989	113.0989	0.0250	0.0000	113.7240

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6400e-003	0.0521	0.0141	1.3000e-004	3.3300e-003	1.1000e-004	3.4300e-003	1.0000e-004	1.0000e-004	1.0600e-003	0.0000	13.0150	13.0150	8.0000e-004	0.0000	13.0350
Worker	3.4100e-003	2.6500e-003	0.0300	9.0000e-005	8.6800e-003	7.0000e-005	8.7500e-003	2.3100e-003	7.0000e-005	2.3700e-003	0.0000	7.8322	7.8322	2.3000e-004	0.0000	7.8380
Total	5.0500e-003	0.0548	0.0441	2.2000e-004	0.0120	1.8000e-004	0.0122	3.2700e-003	1.7000e-004	3.4300e-003	0.0000	20.8472	20.8472	1.0300e-003	0.0000	20.8730

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3.9 Office Building & Staff Parking - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1059	0.8432	0.8731	1.3500e-003		0.0470	0.0470		0.0446	0.0446	0.0000	113.0987	113.0987	0.0250	0.0000	113.7238
Total	0.1059	0.8432	0.8731	1.3500e-003		0.0470	0.0470		0.0446	0.0446	0.0000	113.0987	113.0987	0.0250	0.0000	113.7238

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6400e-003	0.0521	0.0141	1.3000e-004	3.3300e-003	1.1000e-004	3.4300e-003	9.6000e-004	1.0000e-004	1.0600e-003	0.0000	13.0150	13.0150	8.0000e-004	0.0000	13.0350
Worker	3.4100e-003	2.6500e-003	0.0300	9.0000e-005	8.6800e-003	7.0000e-005	8.7500e-003	2.3100e-003	7.0000e-005	2.3700e-003	0.0000	7.8322	7.8322	2.3000e-004	0.0000	7.8380
Total	5.0500e-003	0.0548	0.0441	2.2000e-004	0.0120	1.8000e-004	0.0122	3.2700e-003	1.7000e-004	3.4300e-003	0.0000	20.8472	20.8472	1.0300e-003	0.0000	20.8730

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.9 Office Building & Staff Parking - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1160	0.9333	1.0493	1.6400e-003		0.0482	0.0482		0.0458	0.0458	0.0000	137.5654	137.5654	0.0300	0.0000	138.3152
Total	0.1160	0.9333	1.0493	1.6400e-003		0.0482	0.0482		0.0458	0.0458	0.0000	137.5654	137.5654	0.0300	0.0000	138.3152

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0602	0.0163	1.6000e-004	4.0400e-003	1.1000e-004	4.1600e-003	1.1700e-003	1.1000e-004	1.2800e-003	0.0000	15.6861	15.6861	9.4000e-004	0.0000	15.7095
Worker	3.8900e-003	2.9100e-003	0.0336	1.0000e-004	0.0106	8.0000e-005	0.0106	2.8000e-003	8.0000e-005	2.8800e-003	0.0000	9.1885	9.1885	2.5000e-004	0.0000	9.1948
Total	5.7600e-003	0.0631	0.0498	2.6000e-004	0.0146	1.9000e-004	0.0148	3.9700e-003	1.9000e-004	4.1600e-003	0.0000	24.8746	24.8746	1.1900e-003	0.0000	24.9044

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.9 Office Building & Staff Parking - 2022

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1160	0.9333	1.0493	1.6400e-003		0.0482	0.0482		0.0458	0.0458	0.0000	137.5652	137.5652	0.0300	0.0000	138.3150
Total	0.1160	0.9333	1.0493	1.6400e-003		0.0482	0.0482		0.0458	0.0458	0.0000	137.5652	137.5652	0.0300	0.0000	138.3150

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0602	0.0163	1.6000e-004	4.0400e-003	1.1000e-004	4.1600e-003	1.1700e-003	1.1000e-004	1.2800e-003	0.0000	15.6861	15.6861	9.4000e-004	0.0000	15.7095
Worker	3.8900e-003	2.9100e-003	0.0336	1.0000e-004	0.0106	8.0000e-005	0.0106	2.8000e-003	8.0000e-005	2.8800e-003	0.0000	9.1885	9.1885	2.5000e-004	0.0000	9.1948
Total	5.7600e-003	0.0631	0.0498	2.6000e-004	0.0146	1.9000e-004	0.0148	3.9700e-003	1.9000e-004	4.1600e-003	0.0000	24.8746	24.8746	1.1900e-003	0.0000	24.9044

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.10 Water Distribution Shop and Maintenance Building - 2021

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3654	91.3654	0.0180	0.0000	91.8148
Total	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3654	91.3654	0.0180	0.0000	91.8148

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.1042	0.0283	2.7000e-004	6.6500e-003	2.1000e-004	6.8600e-003	1.9200e-003	2.0000e-004	2.1200e-003	0.0000	26.0300	26.0300	1.6000e-003	0.0000	26.0700
Worker	9.0900e-003	7.0700e-003	0.0799	2.3000e-004	0.0231	1.9000e-004	0.0233	6.1500e-003	1.8000e-004	6.3200e-003	0.0000	20.8859	20.8859	6.1000e-004	0.0000	20.9013
Total	0.0124	0.1113	0.1081	5.0000e-004	0.0298	4.0000e-004	0.0302	8.0700e-003	3.8000e-004	8.4400e-003	0.0000	46.9160	46.9160	2.2100e-003	0.0000	46.9712

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.10 Water Distribution Shop and Maintenance Building - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3653	91.3653	0.0180	0.0000	91.8147
Total	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3653	91.3653	0.0180	0.0000	91.8147

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.1042	0.0283	2.7000e-004	6.6500e-003	2.1000e-004	6.8600e-003	1.9200e-003	2.0000e-004	2.1200e-003	0.0000	26.0300	26.0300	1.6000e-003	0.0000	26.0700
Worker	9.0900e-003	7.0700e-003	0.0799	2.3000e-004	0.0231	1.9000e-004	0.0233	6.1500e-003	1.8000e-004	6.3200e-003	0.0000	20.8859	20.8859	6.1000e-004	0.0000	20.9013
Total	0.0124	0.1113	0.1081	5.0000e-004	0.0298	4.0000e-004	0.0302	8.0700e-003	3.8000e-004	8.4400e-003	0.0000	46.9160	46.9160	2.2100e-003	0.0000	46.9712

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.10 Water Distribution Shop and Maintenance Building - 2022

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7601	155.7601	0.0301	0.0000	156.5113
Total	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7601	155.7601	0.0301	0.0000	156.5113

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2500e-003	0.1688	0.0456	4.5000e-004	0.0113	3.2000e-004	0.0117	3.2700e-003	3.0000e-004	3.5800e-003	0.0000	43.9797	43.9797	2.6300e-003	0.0000	44.0454
Worker	0.0145	0.0109	0.1254	3.8000e-004	0.0395	3.1000e-004	0.0398	0.0105	2.9000e-004	0.0108	0.0000	34.3496	34.3496	9.5000e-004	0.0000	34.3732
Total	0.0198	0.1797	0.1710	8.3000e-004	0.0508	6.3000e-004	0.0514	0.0138	5.9000e-004	0.0144	0.0000	78.3292	78.3292	3.5800e-003	0.0000	78.4186

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.10 Water Distribution Shop and Maintenance Building - 2022

Mitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7599	155.7599	0.0301	0.0000	156.5112
Total	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7599	155.7599	0.0301	0.0000	156.5112

Mitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2500e-003	0.1688	0.0456	4.5000e-004	0.0113	3.2000e-004	0.0117	3.2700e-003	3.0000e-004	3.5800e-003	0.0000	43.9797	43.9797	2.6300e-003	0.0000	44.0454
Worker	0.0145	0.0109	0.1254	3.8000e-004	0.0395	3.1000e-004	0.0398	0.0105	2.9000e-004	0.0108	0.0000	34.3496	34.3496	9.5000e-004	0.0000	34.3732
Total	0.0198	0.1797	0.1710	8.3000e-004	0.0508	6.3000e-004	0.0514	0.0138	5.9000e-004	0.0144	0.0000	78.3292	78.3292	3.5800e-003	0.0000	78.4186

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.11 Department Fleet Vehicles Parking - 2021

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3654	91.3654	0.0180	0.0000	91.8148
Total	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3654	91.3654	0.0180	0.0000	91.8148

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	0.0174	4.7100e-003	4.0000e-005	1.1100e-003	4.0000e-005	1.1400e-003	3.2000e-004	3.0000e-005	3.5000e-004	0.0000	4.3383	4.3383	2.7000e-004	0.0000	4.3450
Worker	0.0129	0.0100	0.1131	3.3000e-004	0.0328	2.7000e-004	0.0331	8.7100e-003	2.5000e-004	8.9600e-003	0.0000	29.5884	29.5884	8.7000e-004	0.0000	29.6102
Total	0.0134	0.0274	0.1179	3.7000e-004	0.0339	3.1000e-004	0.0342	9.0300e-003	2.8000e-004	9.3100e-003	0.0000	33.9267	33.9267	1.1400e-003	0.0000	33.9552

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.11 Department Fleet Vehicles Parking - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3653	91.3653	0.0180	0.0000	91.8147
Total	0.0900	0.7052	0.6408	1.1000e-003		0.0360	0.0360		0.0345	0.0345	0.0000	91.3653	91.3653	0.0180	0.0000	91.8147

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	0.0174	4.7100e-003	4.0000e-005	1.1100e-003	4.0000e-005	1.1400e-003	3.2000e-004	3.0000e-005	3.5000e-004	0.0000	4.3383	4.3383	2.7000e-004	0.0000	4.3450
Worker	0.0129	0.0100	0.1131	3.3000e-004	0.0328	2.7000e-004	0.0331	8.7100e-003	2.5000e-004	8.9600e-003	0.0000	29.5884	29.5884	8.7000e-004	0.0000	29.6102
Total	0.0134	0.0274	0.1179	3.7000e-004	0.0339	3.1000e-004	0.0342	9.0300e-003	2.8000e-004	9.3100e-003	0.0000	33.9267	33.9267	1.1400e-003	0.0000	33.9552

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.11 Department Fleet Vehicles Parking - 2022

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1605	1.2633	1.2416	2.1600e-003		0.0607	0.0607		0.0582	0.0582	0.0000	179.6433	179.6433	0.0347	0.0000	180.5098
Total	0.1605	1.2633	1.2416	2.1600e-003		0.0607	0.0607		0.0582	0.0582	0.0000	179.6433	179.6433	0.0347	0.0000	180.5098

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0100e-003	0.0324	8.7600e-003	9.0000e-005	2.1800e-003	6.0000e-005	2.2400e-003	6.3000e-004	6.0000e-005	6.9000e-004	0.0000	8.4539	8.4539	5.0000e-004	0.0000	8.4665
Worker	0.0237	0.0178	0.2050	6.2000e-004	0.0645	5.1000e-004	0.0650	0.0171	4.7000e-004	0.0176	0.0000	56.1234	56.1234	1.5500e-003	0.0000	56.1620
Total	0.0247	0.0502	0.2137	7.1000e-004	0.0666	5.7000e-004	0.0672	0.0178	5.3000e-004	0.0183	0.0000	64.5773	64.5773	2.0500e-003	0.0000	64.6285

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.11 Department Fleet Vehicles Parking - 2022

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1605	1.2633	1.2416	2.1600e-003		0.0607	0.0607		0.0582	0.0582	0.0000	179.6431	179.6431	0.0347	0.0000	180.5095
Total	0.1605	1.2633	1.2416	2.1600e-003		0.0607	0.0607		0.0582	0.0582	0.0000	179.6431	179.6431	0.0347	0.0000	180.5095

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0100e-003	0.0324	8.7600e-003	9.0000e-005	2.1800e-003	6.0000e-005	2.2400e-003	6.3000e-004	6.0000e-005	6.9000e-004	0.0000	8.4539	8.4539	5.0000e-004	0.0000	8.4665
Worker	0.0237	0.0178	0.2050	6.2000e-004	0.0645	5.1000e-004	0.0650	0.0171	4.7000e-004	0.0176	0.0000	56.1234	56.1234	1.5500e-003	0.0000	56.1620
Total	0.0247	0.0502	0.2137	7.1000e-004	0.0666	5.7000e-004	0.0672	0.0178	5.3000e-004	0.0183	0.0000	64.5773	64.5773	2.0500e-003	0.0000	64.6285

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3.12 Supply Chain Services Warehouse - 2021
Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0798	0.6000	0.5676	9.7000e-004		0.0301	0.0301		0.0291	0.0291	0.0000	79.8810	79.8810	0.0143	0.0000	80.2375
Total	0.0798	0.6000	0.5676	9.7000e-004		0.0301	0.0301		0.0291	0.0291	0.0000	79.8810	79.8810	0.0143	0.0000	80.2375

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1900e-003	0.0695	0.0188	1.8000e-004	4.4300e-003	1.4000e-004	4.5800e-003	1.2800e-003	1.4000e-004	1.4200e-003	0.0000	17.3534	17.3534	1.0600e-003	0.0000	17.3800
Worker	5.3000e-003	4.1300e-003	0.0466	1.3000e-004	0.0135	1.1000e-004	0.0136	3.5900e-003	1.0000e-004	3.6900e-003	0.0000	12.1835	12.1835	3.6000e-004	0.0000	12.1924
Total	7.4900e-003	0.0736	0.0654	3.1000e-004	0.0179	2.5000e-004	0.0182	4.8700e-003	2.4000e-004	5.1100e-003	0.0000	29.5368	29.5368	1.4200e-003	0.0000	29.5724

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.12 Supply Chain Services Warehouse - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0798	0.6000	0.5676	9.7000e-004		0.0301	0.0301		0.0291	0.0291	0.0000	79.8809	79.8809	0.0143	0.0000	80.2374
Total	0.0798	0.6000	0.5676	9.7000e-004		0.0301	0.0301		0.0291	0.0291	0.0000	79.8809	79.8809	0.0143	0.0000	80.2374

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1900e-003	0.0695	0.0188	1.8000e-004	4.4300e-003	1.4000e-004	4.5800e-003	1.2800e-003	1.4000e-004	1.4200e-003	0.0000	17.3534	17.3534	1.0600e-003	0.0000	17.3800
Worker	5.3000e-003	4.1300e-003	0.0466	1.3000e-004	0.0135	1.1000e-004	0.0136	3.5900e-003	1.0000e-004	3.6900e-003	0.0000	12.1835	12.1835	3.6000e-004	0.0000	12.1924
Total	7.4900e-003	0.0736	0.0654	3.1000e-004	0.0179	2.5000e-004	0.0182	4.8700e-003	2.4000e-004	5.1100e-003	0.0000	29.5368	29.5368	1.4200e-003	0.0000	29.5724

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.12 Supply Chain Services Warehouse - 2022
Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1426	1.0815	1.1008	1.9100e-003		0.0509	0.0509	0.0492	0.0492	0.0492	0.0000	157.0640	157.0640	0.0274	0.0000	157.7479
Total	0.1426	1.0815	1.1008	1.9100e-003		0.0509	0.0509	0.0492	0.0492	0.0492	0.0000	157.0640	157.0640	0.0274	0.0000	157.7479

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0300e-003	0.1298	0.0350	3.5000e-004	8.7200e-003	2.4000e-004	8.9600e-003	2.3000e-004	2.7500e-003	2.7500e-003	0.0000	33.8155	33.8155	2.0200e-003	0.0000	33.8660
Worker	9.7700e-003	7.3300e-003	0.0844	2.6000e-004	0.0265	2.1000e-004	0.0268	2.0000e-004	7.2400e-003	7.2400e-003	0.0000	23.1096	23.1096	6.4000e-004	0.0000	23.1255
Total	0.0138	0.1371	0.1194	6.1000e-004	0.0353	4.5000e-004	0.0357	9.5700e-003	4.3000e-004	9.9900e-003	0.0000	56.9251	56.9251	2.6600e-003	0.0000	56.9915

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.12 Supply Chain Services Warehouse - 2022
Mitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1426	1.0815	1.1008	1.9100e-003		0.0509	0.0509	0.0492	0.0492	0.0492	0.0000	157.0638	157.0638	0.0274	0.0000	157.7477
Total	0.1426	1.0815	1.1008	1.9100e-003		0.0509	0.0509	0.0492	0.0492	0.0492	0.0000	157.0638	157.0638	0.0274	0.0000	157.7477

Mitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0300e-003	0.1298	0.0350	3.5000e-004	8.7200e-003	2.4000e-004	8.9600e-003	2.3000e-004	2.3000e-004	2.7500e-003	0.0000	33.8155	33.8155	2.0200e-003	0.0000	33.8660
Worker	9.7700e-003	7.3300e-003	0.0844	2.6000e-004	0.0265	2.1000e-004	0.0268	2.0000e-004	2.0000e-004	7.2400e-003	0.0000	23.1096	23.1096	6.4000e-004	0.0000	23.1255
Total	0.0138	0.1371	0.1194	6.1000e-004	0.0353	4.5000e-004	0.0357	4.3000e-004	9.9900e-003	9.9900e-003	0.0000	56.9251	56.9251	2.6600e-003	0.0000	56.9915

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2021

Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0953	0.8856	0.9369	1.4800e-003		0.0481	0.0481		0.0451	0.0451	0.0000	127.4405	127.4405	0.0328	0.0000	128.2616
Total	0.0953	0.8856	0.9369	1.4800e-003		0.0481	0.0481		0.0451	0.0451	0.0000	127.4405	127.4405	0.0328	0.0000	128.2616

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	0.0434	0.0118	1.1000e-004	2.7700e-003	9.0000e-005	2.8600e-003	8.0000e-004	8.0000e-005	8.8000e-004	0.0000	10.8459	10.8459	6.7000e-004	0.0000	10.8625
Worker	3.0300e-003	2.3600e-003	0.0266	8.0000e-005	7.7100e-003	6.0000e-005	7.7800e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9620	6.9620	2.0000e-004	0.0000	6.9671
Total	4.4000e-003	0.0458	0.0384	1.9000e-004	0.0105	1.5000e-004	0.0106	2.8500e-003	1.4000e-004	2.9900e-003	0.0000	17.8078	17.8078	8.7000e-004	0.0000	17.8296

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2021

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0953	0.8856	0.9369	1.4800e-003		0.0481	0.0481		0.0451	0.0451	0.0000	127.4404	127.4404	0.0328	0.0000	128.2614
Total	0.0953	0.8856	0.9369	1.4800e-003		0.0481	0.0481		0.0451	0.0451	0.0000	127.4404	127.4404	0.0328	0.0000	128.2614

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	0.0434	0.0118	1.1000e-004	2.7700e-003	9.0000e-005	2.8600e-003	8.0000e-004	8.0000e-005	8.8000e-004	0.0000	10.8459	10.8459	6.7000e-004	0.0000	10.8625
Worker	3.0300e-003	2.3600e-003	0.0266	8.0000e-005	7.7100e-003	6.0000e-005	7.7800e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9620	6.9620	2.0000e-004	0.0000	6.9671
Total	4.4000e-003	0.0458	0.0384	1.9000e-004	0.0105	1.5000e-004	0.0106	2.8500e-003	1.4000e-004	2.9900e-003	0.0000	17.8078	17.8078	8.7000e-004	0.0000	17.8296

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1453	1.3436	1.5824	2.5200e-003		0.0690	0.0690		0.0647	0.0647	0.0000	217.3122	217.3122	0.0557	0.0000	218.7050
Total	0.1453	1.3436	1.5824	2.5200e-003		0.0690	0.0690		0.0647	0.0647	0.0000	217.3122	217.3122	0.0557	0.0000	218.7050

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1900e-003	0.0703	0.0190	1.9000e-004	4.7200e-003	1.3000e-004	4.8600e-003	1.3600e-003	1.3000e-004	1.4900e-003	0.0000	18.3249	18.3249	1.0900e-003	0.0000	18.3522
Worker	4.8400e-003	3.6300e-003	0.0418	1.3000e-004	0.0132	1.0000e-004	0.0133	3.4900e-003	1.0000e-004	3.5900e-003	0.0000	11.4499	11.4499	3.2000e-004	0.0000	11.4577
Total	7.0300e-003	0.0740	0.0608	3.2000e-004	0.0179	2.3000e-004	0.0181	4.8500e-003	2.3000e-004	5.0800e-003	0.0000	29.7747	29.7747	1.4100e-003	0.0000	29.8100

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2022

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1453	1.3436	1.5824	2.5200e-003		0.0690	0.0690		0.0647	0.0647	0.0000	217.3120	217.3120	0.0557	0.0000	218.7048
Total	0.1453	1.3436	1.5824	2.5200e-003		0.0690	0.0690		0.0647	0.0647	0.0000	217.3120	217.3120	0.0557	0.0000	218.7048

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1900e-003	0.0703	0.0190	1.9000e-004	4.7200e-003	1.3000e-004	4.8600e-003	1.3600e-003	1.3000e-004	1.4900e-003	0.0000	18.3249	18.3249	1.0900e-003	0.0000	18.3522
Worker	4.8400e-003	3.6300e-003	0.0418	1.3000e-004	0.0132	1.0000e-004	0.0133	3.4900e-003	1.0000e-004	3.5900e-003	0.0000	11.4499	11.4499	3.2000e-004	0.0000	11.4577
Total	7.0300e-003	0.0740	0.0608	3.2000e-004	0.0179	2.3000e-004	0.0181	4.8500e-003	2.3000e-004	5.0800e-003	0.0000	29.7747	29.7747	1.4100e-003	0.0000	29.8100

4.0 Operational Detail - Mobile

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

4.1 Mitigation Measures Mobile

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	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	0.3059	1.5012	4.5599	0.0197	1.8442	0.0146	1.8588	0.4942	0.0136	0.5078	0.0000	1,820,796	1,820,796	0.0807	0.0000	1,822,814
Unmitigated	0.3059	1.5012	4.5599	0.0197	1.8442	0.0146	1.8588	0.4942	0.0136	0.5078	0.0000	1,820,796	1,820,796	0.0807	0.0000	1,822,814

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00				
Enclosed Parking Structure	0.00	0.00	0.00				
General Light Industry	1,359.52	257.52	132.24	4,546,804	4,546,804		
General Light Industry	93.76	17.76	9.12	313,573	313,573		
General Office Building	0.00	0.00	0.00				
General Office Building	0.00	0.00	0.00				
Other Asphalt Surfaces	0.00	0.00	0.00				
Other Asphalt Surfaces	0.00	0.00	0.00				
Research & Development	0.00	0.00	0.00				
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00				
Total	1,453.28	275.28	141.36	4,860,376	4,860,376		4,860,376

4.3 Trip Type Information

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Enclosed Parking Structure	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Office Building	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Other Asphalt Surfaces	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Research & Development	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Unrefrigerated Warehouse-No Rail	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

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
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1,419.6010	1,419.6010	0.0337	7.4900e-003	1,422.6755
Electricity Unmitigated						0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1,419.6010	1,419.6010	0.0337	7.4900e-003	1,422.6755
NaturalGas Mitigated	0.0192	0.1747	0.1467	1.0500e-003		0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	190.1545	190.1545	3.6400e-003	3.4900e-003	191.2845
NaturalGas Unmitigated	0.0192	0.1747	0.1467	1.0500e-003		0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	190.1545	190.1545	3.6400e-003	3.4900e-003	191.2845

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
Automobile Care Center	162900	8.8000e-004	7.9900e-003	6.7100e-003	5.0000e-005	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	0.0000	8.6930	8.6930	1.7000e-004	1.6000e-004	8.7446
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	144800	7.8000e-004	7.1000e-003	5.9600e-003	4.0000e-005	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	0.0000	7.7271	7.7271	1.5000e-004	1.4000e-004	7.7730
General Light Industry +006	2.0996e+006	0.0113	0.1029	0.0865	6.2000e-004	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	0.0000	112.0427	112.0427	2.1500e-003	2.0500e-003	112.7085
General Office Building	31230	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Office Building	718290	3.8700e-003	0.0352	0.0296	2.1000e-004	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	0.0000	38.3307	38.3307	7.3000e-004	7.0000e-004	38.5585
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	343900	1.8500e-003	0.0169	0.0142	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	0.0000	18.3518	18.3518	3.5000e-004	3.4000e-004	18.4609
Unrefrigerated Warehouse-No Rail	62640	3.4000e-004	3.0700e-003	2.5800e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	0.0000	3.3427	3.3427	6.0000e-005	6.0000e-005	3.3626
Total		0.0192	0.1747	0.1467	1.0500e-003	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	190.1545	190.1545	3.6400e-003	3.4800e-003	191.2845

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Automobile Care Center	162900	8.8000e-004	7.9900e-003	6.7100e-003	5.0000e-005	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	6.1000e-004	0.0000	8.6930	8.6930	1.7000e-004	1.6000e-004	8.7446
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	144800	7.8000e-004	7.1000e-003	5.9600e-003	4.0000e-005	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	0.0000	7.7271	7.7271	1.5000e-004	1.4000e-004	7.7730
General Light Industry +006	2.0996e+006	0.0113	0.1029	0.0865	6.2000e-004	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	7.8200e-003	0.0000	112.0427	112.0427	2.1500e-003	2.0500e-003	112.7085
General Office Building	31230	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	0.0000	1.6666	1.6666	3.0000e-005	3.0000e-005	1.6765
General Office Building	718290	3.8700e-003	0.0352	0.0296	2.1000e-004	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	2.6800e-003	0.0000	38.3307	38.3307	7.3000e-004	7.0000e-004	38.5585
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	343900	1.8500e-003	0.0169	0.0142	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	0.0000	18.3518	18.3518	3.5000e-004	3.4000e-004	18.4609
Unrefrigerated Warehouse-No Rail	62640	3.4000e-004	3.0700e-003	2.5800e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	0.0000	3.3427	3.3427	6.0000e-005	6.0000e-005	3.3626
Total		0.0192	0.1747	0.1467	1.0500e-003	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0000	190.1545	190.1545	3.6400e-003	3.4800e-003	191.2845

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2				CH4	N2O	CO2e
		MT/yr						
Automobile Care Center	99900	34.3552	8.2000e-004	1.8000e-004			34.4296	
Enclosed Parking Structure	1.22472e+006	421.1758	0.0100	2.2200e-003			422.0880	
General Light Industry	1.2876e+006	442.8000	0.0105	2.3400e-003			443.7590	
General Light Industry	88800	30.5379	7.3000e-004	1.6000e-004			30.6041	
General Office Building	38970	13.4016	3.2000e-004	7.0000e-005			13.4306	
General Office Building	896310	308.2371	7.3200e-003	1.6300e-003			308.9046	
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000			0.0000	
Research & Development	210900	72.5276	1.7200e-003	3.8000e-004			72.6847	
Unrefrigerated Warehouse-No Rail	280800	96.5659	2.2900e-003	5.1000e-004			96.7750	
Total		1,419,601.0	0.0337	7.4900e-003			1,422,675.5	

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Automobile Care Center	99900	34.3552	8.2000e-004	1.8000e-004	34.4296
Enclosed Parking Structure	1.22472e+006	421.1758	0.0100	2.2200e-003	422.0880
General Light Industry	1.2876e+006	442.8000	0.0105	2.3400e-003	443.7590
General Light Industry	88800	30.5379	7.3000e-004	1.6000e-004	30.6041
General Office Building	38970	13.4016	3.2000e-004	7.0000e-005	13.4306
General Office Building	896310	308.2371	7.3200e-003	1.6300e-003	308.9046
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	210900	72.5276	1.7200e-003	3.8000e-004	72.6847
Unrefrigerated Warehouse-No Rail	280800	96.5659	2.2900e-003	5.1000e-004	96.7750
Total		1,419,601.0	0.0337	7.4900e-003	1,422,675.5

6.0 Area Detail

6.1 Mitigation Measures Area

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

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
tons/yr																
MT/yr																
Mitigated	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Unmitigated	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MT/yr																
Architectural Coating	0.1429				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0960				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.3000e-004	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Total	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

SubCategory	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	0.1429					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0960					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.3000e-004	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186
Total	1.2397	8.0000e-005	8.9700e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0175	0.0175	5.0000e-005	0.0000	0.0186

7.0 Water Detail

7.1 Mitigation Measures Water

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	359.5073	2.2339	0.0543	431.5491
Unmitigated	359.5073	2.2339	0.0543	431.5491

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	6.0430	0.0277	6.8000e-004	6.9394
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	28.675 / 0	137.5000	0.9374	0.0227	167.7122
General Office Building	12.7968 / 7.84322	91.3287	0.4191	0.0103	104.8765
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	9.34219 / 0	44.7969	0.3054	7.4100e-003	54.6399
Unrefrigerated Warehouse-No Rail	16.65 / 0	79.8387	0.5443	0.0132	97.3813
Total		359.5073	2.2339	0.0543	431.5491

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	6.0430	0.0277	6.8000e-004	6.9394
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	28.675 / 0	137.5000	0.9374	0.0227	167.7122
General Office Building	12.7968 / 7.84322	91.3287	0.4191	0.0103	104.8765
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	9.34219 / 0	44.7969	0.3054	7.4100e-003	54.6399
Unrefrigerated Warehouse-No Rail	16.65 / 0	79.8387	0.5443	0.0132	97.3813
Total		359.5073	2.2339	0.0543	431.5491

8.0 Waste Detail

8.1 Mitigation Measures Waste

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	65.8137	3.8895	0.0000	163.0507
Unmitigated	65.8137	3.8895	0.0000	163.0507

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Automobile Care Center	34.38	6.9788	0.4124	0.0000	17.2898
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	153.76	31.2119	1.8446	0.0000	77.3261
General Office Building	66.96	13.5923	0.8033	0.0000	33.6743
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	1.44	0.2923	0.0173	0.0000	0.7242
Unrefrigerated Warehouse-No Rail	67.68	13.7384	0.8119	0.0000	34.0364
Total		65.8137	3.8895	0.0000	163.0507

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Automobile Care Center	34.38	6.9788	0.4124	0.0000	17.2898
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	153.76	31.2119	1.8446	0.0000	77.3261
General Office Building	66.96	13.5923	0.8033	0.0000	33.6743
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	1.44	0.2923	0.0173	0.0000	0.7242
Unrefrigerated Warehouse-No Rail	67.68	13.7384	0.8119	0.0000	34.0364
Total		65.8137	3.8895	0.0000	163.0507

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	10	4.00	260	89	0.20	Diesel

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Annual

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Forklifts	0.0568	0.5347	0.7406	1.0000e-003	0.0286	0.0286	0.0286	0.0263	0.0263	0.0263	0.0000	87.7258	87.7258	0.0284	0.0000	88.4351
Total	0.0568	0.5347	0.7406	1.0000e-003	0.0286	0.0286	0.0286	0.0263	0.0263	0.0263	0.0000	87.7258	87.7258	0.0284	0.0000	88.4351

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

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Mid Valley Water Facility Unmitigated HRA
 Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	69.00	1000sqft	1.58	69,000.00	0
General Office Building	3.00	1000sqft	0.07	3,000.00	0
Research & Development	19.00	1000sqft	0.44	19,000.00	0
General Light Industry	116.00	1000sqft	2.66	116,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Unrefrigerated Warehouse-No Rail	72.00	1000sqft	1.65	72,000.00	0
Enclosed Parking Structure	216.00	1000sqft	4.96	216,000.00	0
Other Asphalt Surfaces	181.00	1000sqft	4.16	181,000.00	0
Other Asphalt Surfaces	12.00	1000sqft	0.28	12,000.00	0
Automobile Care Center	9.00	1000sqft	0.21	9,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2026

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	758.16	CH4 Intensity (lb/MW/hr)	0.018	N2O Intensity (lb/MW/hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Project Characteristics - Los Angeles Department of Water and Power adjusted for 43.2% RPS in 2026. HRA

Land Use -

Construction Phase - Data provided by applicant.

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant.

Grading - Data provided by applicant.

Vehicle Trips - Data provided by Traffic Report. HRA onsite vehicle travel assumed 0.19 miles (1,000 feet).

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Data provided by applicant.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	42.00

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

tblConstructionPhase	NumDays	300.00	238.00
tblConstructionPhase	NumDays	300.00	108.00
tblConstructionPhase	NumDays	300.00	22.00
tblConstructionPhase	NumDays	300.00	195.00
tblConstructionPhase	NumDays	300.00	238.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	30.00	130.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	10.00	21.00
tblGrading	AcresOfGrading	325.00	6.57
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	UsageHours	7.00	4.00
tbIOffRoadEquipment	UsageHours	7.00	4.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tbOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	10.00
tbIProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tbIProjectCharacteristics	CO2IntensityFactor	1227.89	758.16
tbIProjectCharacteristics	N2OIntensityFactor	0.006	0.004

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tblTripsAndVMT	HaulingTripNumber	0.00	4,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	11,118.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	10.00
tblTripsAndVMT	VendorTripNumber	116.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	22.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	12.00
tblTripsAndVMT	VendorTripNumber	116.00	24.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	57.00	44.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	6.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	18.00
tblTripsAndVMT	WorkerTripNumber	286.00	48.00
tblTripsAndVMT	WorkerTripNumber	286.00	68.00

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

tblTripsAndVMT	WorkerTripNumber		
tblVehicleTrips	CC_TL	286.00	28.00
tblVehicleTrips	CNW_TL	8.40	0.19
tblVehicleTrips	CW_TL	6.90	0.19
tblVehicleTrips	ST_TR	16.60	0.19
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	1.32	2.22
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.68	1.14
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	6.97	11.72
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	8.11	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2020	5.2424	74.7465	37.1757	0.1299	18.2803	2.2711	20.4804	9.9877	2.0924	12.0119	0.0000	13,369.43 54	13,369.43 54	2.3855	0.0000	13,429.07 19
2021	11.4382	91.9127	92.0064	0.1736	8.0058	4.5099	10.0707	3.8367	4.2938	5.7390	0.0000	16,446.43 34	16,446.43 34	2.8737	0.0000	16,518.27 64
2022	72.0699	83.6387	90.3452	0.1727	2.4122	3.8401	6.2523	0.6493	3.6585	4.3078	0.0000	16,362.55 37	16,362.55 37	2.8259	0.0000	16,433.20 12
2023	3.1436	34.5567	27.8332	0.0779	2.8680	1.2882	4.1562	0.7266	1.2002	1.9268	0.0000	7,827.159 8	7,827.159 8	1.4831	0.0000	7,864.237 0
Maximum	72.0699	91.9127	92.0064	0.1736	18.2803	4.5099	20.4804	9.9877	4.2938	12.0119	0.0000	16,446.43 34	16,446.43 34	2.8737	0.0000	16,518.27 64

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

**2.2 Overall Operational
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643
Energy	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700
Mobile	1.1293	4.6555	4.1208	8.5000e-003	0.2026	9.0700e-003	0.2117	0.0542	8.3800e-003	0.0626		888.0088	888.0088	0.0763		889.9654
Offroad	0.4345	4.0927	5.6688	7.6400e-003		0.2191	0.2191		0.2016	0.2016		740.1542	740.1542	0.2394		746.1387
Total	8.4642	9.7060	10.6654	0.0219	0.2026	0.3012	0.5038	0.0542	0.2830	0.3372		2,776.8620	2,776.8620	0.3401	0.0211	2,791.6384

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

**2.2 Overall Operational
Mitigated Operational**

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	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	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Energy	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727	1,148.5447	1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700
Mobile	1.1293	4.6555	4.1208	8.5000e-003	0.2026	9.0700e-003	0.2117	0.0542	8.3800e-003	0.0626	888.0088	888.0088	888.0088	0.0763		889.9654
Offroad	0.4345	4.0927	5.6688	7.6400e-003		0.2191	0.2191	0.2016	0.2016	0.2016	740.1542	740.1542	740.1542	0.2394		746.1387
Total	8.4642	9.7060	10.6654	0.0219	0.2026	0.3012	0.5038	0.0542	0.2830	0.3372	2,776.8620	2,776.8620	2,776.8620	0.3401	0.0211	2,791.6384

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

3.0 Construction Detail

Construction Phase

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/1/2020	11/30/2020	5	21	
2	Grading	Grading	12/1/2020	5/31/2021	5	130	
3	Trenching & Underground Utilities	Trenching	7/1/2021	7/30/2021	5	22	
4	Perimeter Walls Construction	Building Construction	7/1/2021	7/30/2021	5	22	
5	Paving & Site Infrastructure	Paving	8/1/2021	8/21/2021	5	15	
6	Office Building & Staff Parking	Building Construction	9/1/2021	5/31/2022	5	195	
7	Water Distribution Shop and Maintenance Building	Building Construction	9/1/2021	7/30/2022	5	238	
8	Department Fleet Vehicles Parking	Building Construction	9/1/2021	8/31/2022	5	261	
9	Supply Chain Services Warehouse	Building Construction	9/1/2021	8/31/2022	5	261	
10	Fleet Maintenance Building and CNG Dispensing Area	Building Construction	9/1/2021	7/30/2022	5	238	
11	Street Improvement of Hazeltine Avenue	Building Construction	9/1/2022	1/30/2023	5	108	
12	Architectural Coating	Architectural Coating	9/1/2022	10/30/2022	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.57

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 444,000; Non-Residential Outdoor: 148,000; Striped Parking Area: 24,540 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Perimeter Walls Construction	Bore/Drill Rigs	1	8.00	221	0.50
Perimeter Walls Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Perimeter Walls Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Perimeter Walls Construction	Cranes	1	7.00	231	0.29
Perimeter Walls Construction	Forklifts	3	8.00	89	0.20
Perimeter Walls Construction	Generator Sets	1	8.00	84	0.74
Perimeter Walls Construction	Paving Equipment	1	8.00	132	0.36
Perimeter Walls Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Perimeter Walls Construction	Welders	1	8.00	46	0.45
Paving & Site Infrastructure	Pavers	2	8.00	130	0.42
Paving & Site Infrastructure	Paving Equipment	2	8.00	132	0.36
Paving & Site Infrastructure	Rollers	2	8.00	80	0.38
Street Improvement of Hazeltine Avenue	Cranes	1	7.00	231	0.29
Street Improvement of Hazeltine Avenue	Excavators	1	8.00	158	0.38
Street Improvement of Hazeltine Avenue	Forklifts	3	8.00	89	0.20
Street Improvement of Hazeltine Avenue	Generator Sets	1	8.00	84	0.74
Street Improvement of Hazeltine Avenue	Graders	1	8.00	187	0.41
Street Improvement of Hazeltine Avenue	Rubber Tired Dozers	1	8.00	247	0.40
Street Improvement of Hazeltine Avenue	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Street Improvement of Hazeltine Avenue	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Trenching & Underground Utilities	Plate Compactors	1	8.00	8	0.43
Trenching & Underground Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching & Underground Utilities	Trenchers	1	8.00	78	0.50
Office Building & Staff Parking	Cranes	1	4.00	231	0.29
Office Building & Staff Parking	Forklifts	2	6.00	89	0.20
Office Building & Staff Parking	Forklifts	2	7.00	89	0.20
Office Building & Staff Parking	Generator Sets	1	8.00	84	0.74
Office Building & Staff Parking	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Office Building & Staff Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Office Building & Staff Parking	Welders	3	8.00	46	0.45
Water Distribution Shop and Maintenance Building	Cranes	1	8.00	231	0.29
Water Distribution Shop and Maintenance Building	Forklifts	2	7.00	89	0.20
Water Distribution Shop and Maintenance Building	Generator Sets	1	8.00	84	0.74
Water Distribution Shop and Maintenance Building	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Water Distribution Shop and Maintenance Building	Welders	3	8.00	46	0.45
Department Fleet Vehicles Parking	Cranes	1	8.00	231	0.29
Department Fleet Vehicles Parking	Forklifts	2	7.00	89	0.20
Department Fleet Vehicles Parking	Generator Sets	1	8.00	84	0.74
Department Fleet Vehicles Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Department Fleet Vehicles Parking	Welders	3	8.00	46	0.45
Supply Chain Services Warehouse	Cranes	1	6.00	231	0.29
Supply Chain Services Warehouse	Forklifts	1	6.00	89	0.20
Supply Chain Services Warehouse	Generator Sets	1	8.00	84	0.74
Supply Chain Services Warehouse	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Supply Chain Services Warehouse	Welders	3	8.00	46	0.45
Fleet Maintenance Building and CNG Dispensing Area	Cranes	1	4.00	231	0.29

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Fleet Maintenance Building and CNG Dispensing Area	Forklifts	2	6.00	89	0.20
Fleet Maintenance Building and CNG Dispensing Area	Generator Sets	1	8.00	84	0.74
Fleet Maintenance Building and CNG Dispensing Area	Pavers	1	6.00	130	0.42
Fleet Maintenance Building and CNG Dispensing Area	Paving Equipment	1	8.00	132	0.36
Fleet Maintenance Building and CNG Dispensing Area	Rollers	1	7.00	80	0.38
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Welders	1	8.00	46	0.45

Trips and VMT

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	2.00	11,118.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Site Infrastructure	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvement of Hazeltine Avenue	12	16.00	2.00	4,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching & Underground Utilities	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Office Building & Staff Parking	12	18.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Water Distribution Shop and Maintenance	8	48.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Department Fleet Vehicles Parking	8	68.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Supply Chain Services Warehouse	7	28.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fleet Maintenance Building and CNG Dis	11	16.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.2 Site Preparation - 2020
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380	2.1974	2.1974	2.1974	2.0216	2.0216	2.0216	3,685.1016	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003	55.4049	55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549	211.7003	211.7003	211.7003	6.6700e-003		211.8672
Total	0.0900	0.2717	0.8439	2.6500e-003	0.2140	2.6800e-003	0.2167	0.0571	2.5100e-003	0.0596		267.1053	267.1053	0.0101		267.3566

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.2 Site Preparation - 2020
Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380	2.1974	2.1974	2.1974	2.0216	2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.0458	2.1974	9.2433	3.8730	2.0216	5.8946	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549	211.7003	211.7003	211.7003	6.6700e-003		211.8672
Total	0.0900	0.2717	0.8439	2.6500e-003	0.2140	2.6800e-003	0.2167	0.0571	2.5100e-003	0.0596	267.1053	267.1053	267.1053	0.0101		267.3566

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.3 Grading - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					6.0757	0.0000	6.0757	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	4.4146	49.8900	30.9702	0.0599	2.1902	2.1902	2.1902	2.0149	2.0149	2.0149		5,806.5154	5,806.5154	1.8779		5,853.4640
Total	4.4146	49.8900	30.9702	0.0599	6.0757	2.1902	8.2658	3.3160	2.0149	5.3310		5,806.5154	5,806.5154	1.8779		5,853.4640

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7470	24.5914	5.4492	0.0676	6.7556	0.0785	6.8341	1.7011	0.0751	1.7761		7,319.3370	7,319.3370	0.4982		7,331.7920
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0736	0.0524	0.7006	1.8900e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		188.1781	188.1781	5.9300e-003		188.3264
Total	0.8278	24.8565	6.2055	0.0700	6.9472	0.0810	7.0282	1.7522	0.0774	1.8296		7,562.9200	7,562.9200	0.5075		7,575.6079

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.3 Grading - 2020

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					2.3695	0.0000	2.3695	1.2933	0.0000	1.2933			0.0000			0.0000
Off-Road	4.4146	49.8900	30.9702	0.0599	2.1902	2.1902	2.1902	2.0149	2.0149	2.0149	0.0000	5,806.5154	5,806.5154	1.8779		5,853.4640
Total	4.4146	49.8900	30.9702	0.0599	2.3695	2.1902	4.5597	1.2933	2.0149	3.3082	0.0000	5,806.5154	5,806.5154	1.8779		5,853.4640

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7470	24.5914	5.4492	0.0676	6.7556	0.0785	6.8341	1.7011	0.0751	1.7761			7,319.3370	0.4982		7,331.7920
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003			55.4049	3.3800e-003		55.4895
Worker	0.0736	0.0524	0.7006	1.8900e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488			188.1781	5.9300e-003		188.3264
Total	0.8278	24.8565	6.2055	0.0700	6.9472	0.0810	7.0282	1.7522	0.0774	1.8296			7,562.9200	0.5075		7,575.6079

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.3 Grading - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					6.0757	0.0000	6.0757	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600	1.9927	1.9927	1.9927	1.8333	1.8333	1.8333		5,807.7515	5,807.7515	1.8783		5,854.7102
Total	4.1493	46.1422	29.8669	0.0600	6.0757	1.9927	8.0684	3.3160	1.8333	5.1493		5,807.7515	5,807.7515	1.8783		5,854.7102

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7131	22.9410	5.3790	0.0667	1.7385	0.0704	1.8089	0.4696	0.0674	0.5369			7,239.0690	0.4913		7,251.3507
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003			54.9761	3.2400e-003		55.0571
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			182.2032	5.3700e-003		182.3374
Total	0.7877	23.1823	6.0742	0.0691	1.9301	0.0723	2.0024	0.5207	0.0691	0.5898		7,476.2483	7,476.2483	0.4999		7,488.7452

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.3 Grading - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					2.3695	0.0000	2.3695	1.2933	0.0000	1.2933			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600	1.9927	1.9927	1.9927	1.8333	1.8333	1.8333	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102
Total	4.1493	46.1422	29.8669	0.0600	2.3695	1.9927	4.3622	1.2933	1.8333	3.1265	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7131	22.9410	5.3790	0.0667	1.7385	0.0704	1.8089	0.4696	0.0674	0.5369			7,239.0690	0.4913		7,251.3507
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003			54.9761	3.2400e-003		55.0571
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			182.2032	5.3700e-003		182.3374
Total	0.7877	23.1823	6.0742	0.0691	1.9301	0.0723	2.0024	0.5207	0.0691	0.5898			7,476.2483	0.4999		7,488.7452

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.4 Trenching & Underground Utilities - 2021

Unmitigated Construction On-Site

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500		963.2020	963.2020	0.3040		970.8007
Total	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500		963.2020	963.2020	0.3040		970.8007

Unmitigated Construction Off-Site

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	0.0490	0.2236	0.4635	1.6500e-003	0.1246	1.3000e-003	0.1259	0.0333	1.2100e-003	0.0346		168.8531	168.8531	6.6000e-003		169.0180

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.4 Trenching & Underground Utilities - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500	0.0000	963.2020	963.2020	0.3040		970.8007
Total	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500	0.0000	963.2020	963.2020	0.3040		970.8007

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	0.0490	0.2236	0.4535	1.6500e-003	0.1246	1.3000e-003	0.1259	0.0333	1.2100e-003	0.0346		168.8531	168.8531	6.6000e-003		169.0180

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.5 Perimeter Walls Construction - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	4,503.0630	4,503.0630	4,503.0630	1.0782		4,530.0187
Total	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	4,503.0630	4,503.0630	4,503.0630	1.0782		4,530.0187

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0621	7.9000e-004	0.0629	0.0163	7.6000e-004	0.0171	109.9523	109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.1837	5.4000e-004	0.1842	0.0464	5.0000e-004	0.0469	68.3262	68.3262	68.3262	2.0100e-003		68.3765
Total	0.0379	0.4060	0.3432	1.7200e-003	0.2458	1.3300e-003	0.2471	0.0627	1.2600e-003	0.0640	178.2784	178.2784	178.2784	8.4900e-003		178.4907

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.5 Perimeter Walls Construction - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	0.0000	4,503.0630	4,503.0630	1.0782		4,530.0187
Total	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	0.0000	4,503.0630	4,503.0630	1.0782		4,530.0187

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0621	7.9000e-004	0.0629	0.0163	7.6000e-004	0.0171			109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.1837	5.4000e-004	0.1842	0.0464	5.0000e-004	0.0469			68.3262	2.0100e-003		68.3765
Total	0.0379	0.4060	0.3432	1.7200e-003	0.2458	1.3300e-003	0.2471	0.0627	1.2600e-003	0.0640			178.2784	8.4900e-003		178.4907

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.6 Paving & Site Infrastructure - 2021
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.2556	12.9191	14.6532	0.0228	0.6777	0.6777	0.6777	0.6235	0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7755				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000			0.0000
Total	2.0311	12.9191	14.6532	0.0228	0.6777	0.6777	0.6777	0.6235	0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	0.0807	0.4355	0.7460	2.8600e-003	0.2045	2.2400e-003	0.2067	0.0548	2.0900e-003	0.0569		292.1554	292.1554	0.0119		292.4516

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.6 Paving & Site Infrastructure - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777	0.6235	0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7755					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	2.0311	12.9191	14.6532	0.0228		0.6777	0.6777	0.6235	0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	0.0807	0.4355	0.7460	2.8600e-003	0.2045	2.2400e-003	0.2067	0.0548	2.0900e-003	0.0569		292.1554	292.1554	0.0119		292.4516

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.7 Office Building & Staff Parking - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137		2.833.4125	2.833.4125	0.6264		2.849.0729
Total	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137		2.833.4125	2.833.4125	0.6264		2.849.0729

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0365	1.1651	0.3046	3.0900e-003	0.0768	2.3800e-003	0.0792	0.0221	2.2800e-003	0.0244		329.8568	329.8568	0.0194		330.3426
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	0.1136	1.2181	1.0296	5.1500e-003	0.2780	4.0100e-003	0.2820	0.0755	3.7800e-003	0.0793		534.8353	534.8353	0.0255		535.4722

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.7 Office Building & Staff Parking - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137	0.0000	2.833.4125	2.833.4125	0.6264		2.849.0729
Total	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137	0.0000	2,833.4125	2,833.4125	0.6264		2,849.0729

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0365	1.1651	0.3046	3.0900e-003	0.0768	2.3800e-003	0.0792	0.0221	2.2800e-003	0.0244		329.8568	329.8568	0.0194		330.3426
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	0.1136	1.2181	1.0296	5.1500e-003	0.2780	4.0100e-003	0.2820	0.0755	3.7800e-003	0.0793		534.8353	534.8353	0.0255		535.4722

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.7 Office Building & Staff Parking - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1688	17.4455	19.6136	0.0307		0.9004	0.9004		0.8554	0.8554		2,834.390 2	2,834.390 2	0.6180		2,849.839 4
Total	2.1688	17.4455	19.6136	0.0307		0.9004	0.9004		0.8554	0.8554		2,834.390 2	2,834.390 2	0.6180		2,849.839 4

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0342	1.1080	0.2882	3.0600e-003	0.0768	2.0800e-003	0.0789	0.0221	1.9900e-003	0.0241		326.9831	326.9831	0.0188		327.4522
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
Total	0.1065	1.1559	0.9571	5.0400e-003	0.2780	3.6500e-003	0.2817	0.0755	3.4400e-003	0.0789		524.7513	524.7513	0.0242		525.3569

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.7 Office Building & Staff Parking - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	0.0000	2,834.390 2	2,834.390 2	0.6180		2,849.839 4
Total	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	0.0000	2,834.390 2	2,834.390 2	0.6180		2,849.839 4

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0342	1.1080	0.2882	3.0600e-003	0.0768	2.0800e-003	0.0789	0.0221	1.9900e-003	0.0241		326.9831	326.9831	0.0188		327.4522
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
Total	0.1065	1.1559	0.9571	5.0400e-003	0.2780	3.6500e-003	0.2817	0.0755	3.4400e-003	0.0789		524.7513	524.7513	0.0242		525.3569

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.8 Water Distribution Shop and Maintenance Building - 2021
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173	0.7831	0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173	0.7831	0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0730	2.3302	0.6092	6.1700e-003	0.1537	4.7600e-003	0.1584	0.0442	4.5600e-003	0.0488		659.7135	659.7135	0.0389		660.6852
Worker	0.2058	0.1414	1.9333	5.4900e-003	0.5365	4.3400e-003	0.5409	0.1423	3.9900e-003	0.1463		546.6095	546.6095	0.0161		547.0122
Total	0.2787	2.4716	2.5425	0.0117	0.6902	9.1000e-003	0.6993	0.1865	8.5500e-003	0.1951		1,206.3230	1,206.3230	0.0550		1,207.6973

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.8 Water Distribution Shop and Maintenance Building - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0730	2.3302	0.6092	6.1700e-003	0.1537	4.7600e-003	0.1584	0.0442	4.5600e-003	0.0488		659.7135	659.7135	0.0389		660.6852
Worker	0.2058	0.1414	1.9333	5.4900e-003	0.5365	4.3400e-003	0.5409	0.1423	3.9900e-003	0.1463		546.6095	546.6095	0.0161		547.0122
Total	0.2787	2.4716	2.5425	0.0117	0.6902	9.1000e-003	0.6993	0.1865	8.5500e-003	0.1951		1,206.3230	1,206.3230	0.0550		1,207.6973

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.8 Water Distribution Shop and Maintenance Building - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0685	2.2159	0.5764	6.1100e-003	0.1537	4.1700e-003	0.1578	0.0442	3.9800e-003	0.0482		653.9661	653.9661	0.0375		654.9044
Worker	0.1927	0.1278	1.7837	5.2900e-003	0.5365	4.2000e-003	0.5407	0.1423	3.8700e-003	0.1462		527.3819	527.3819	0.0146		527.7458
Total	0.2612	2.3437	2.3601	0.0114	0.6902	8.3700e-003	0.6986	0.1865	7.8500e-003	0.1944		1,181,348₀	1,181,348₀	0.0521		1,182,650₂

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.8 Water Distribution Shop and Maintenance Building - 2022

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281 ₃	2,289,281 ₃	0.4417			2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281₃	2,289,281₃	0.4417			2,300,323₀

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0685	2.2159	0.5764	6.1100e-003	0.1537	4.1700e-003	0.1578	0.0442	3.9800e-003	0.0482		653.9661	653.9661	0.0375			654.9044
Worker	0.1927	0.1278	1.7837	5.2900e-003	0.5365	4.2000e-003	0.5407	0.1423	3.8700e-003	0.1462		527.3819	527.3819	0.0146			527.7458
Total	0.2612	2.3437	2.3601	0.0114	0.6902	8.3700e-003	0.6986	0.1865	7.8500e-003	0.1944		1,181,348₀	1,181,348₀	0.0521			1,182,650₂

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.9 Department Fleet Vehicles Parking - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.2915	0.2004	2.7389	7.7700e-003	0.7601	6.1400e-003	0.7662	0.2016	5.6600e-003	0.2072		774.3635	774.3635	0.0228		774.9339
Total	0.3037	0.5887	2.8404	8.8000e-003	0.7857	6.9300e-003	0.7926	0.2090	6.4200e-003	0.2154		884.3158	884.3158	0.0293		885.0481

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.9 Department Fleet Vehicles Parking - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.2915	0.2004	2.7389	7.7700e-003	0.7601	6.1400e-003	0.7662	0.2016	5.6600e-003	0.2072		774.3635	774.3635	0.0228		774.9339
Total	0.3037	0.5887	2.8404	8.8000e-003	0.7857	6.9300e-003	0.7926	0.2090	6.4200e-003	0.2154		884.3158	884.3158	0.0293		885.0481

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.9 Department Fleet Vehicles Parking - 2022

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281 ³	2,289,281 ³	2,289,281 ³	0.4417		2,300,323 ⁰
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281³	2,289,281³	2,289,281³	0.4417		2,300,323⁰

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0114	0.3693	0.0961	1.0200e-003	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0400e-003	108.9944	108.9944	108.9944	6.2500e-003		109.1507
Worker	0.2730	0.1810	2.5269	7.5000e-003	0.7601	5.9500e-003	0.7660	0.2016	5.4800e-003	0.2071	747.1244	747.1244	747.1244	0.0206		747.6399
Total	0.2845	0.5503	2.6230	8.5200e-003	0.7857	6.6400e-003	0.7923	0.2090	6.1400e-003	0.2151	856.1187	856.1187	856.1187	0.0269		856.7906

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.9 Department Fleet Vehicles Parking - 2022

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0114	0.3693	0.0961	1.0200e-003	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0400e-003		108.9944	108.9944	6.2500e-003		109.1507
Worker	0.2730	0.1810	2.5269	7.5000e-003	0.7601	5.9500e-003	0.7660	0.2016	5.4800e-003	0.2071		747.1244	747.1244	0.0206		747.6399
Total	0.2845	0.5503	2.6230	8.5200e-003	0.7857	6.6400e-003	0.7923	0.2090	6.1400e-003	0.2151		856.1187	856.1187	0.0269		856.7906

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.10 Supply Chain Services Warehouse - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0486	1.5534	0.4061	4.1100e-003	0.1024	3.1800e-003	0.1056	0.0295	3.0400e-003	0.0325		439.8090	439.8090	0.0259		440.4568
Worker	0.1200	0.0825	1.1278	3.2000e-003	0.3130	2.5300e-003	0.3155	0.0830	2.3300e-003	0.0853		318.8556	318.8556	9.4000e-003		319.0904
Total	0.1687	1.6359	1.5339	7.3100e-003	0.4154	5.7100e-003	0.4211	0.1125	5.3700e-003	0.1179		758.6646	758.6646	0.0353		759.5472

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.10 Supply Chain Services Warehouse - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0486	1.5534	0.4061	4.1100e-003	0.1024	3.1800e-003	0.1056	0.0295	3.0400e-003	0.0325		439.8090	439.8090	0.0259		440.4568
Worker	0.1200	0.0825	1.1278	3.2000e-003	0.3130	2.5300e-003	0.3155	0.0830	2.3300e-003	0.0853		318.8556	318.8556	9.4000e-003		319.0904
Total	0.1687	1.6359	1.5339	7.3100e-003	0.4154	5.7100e-003	0.4211	0.1125	5.3700e-003	0.1179		758.6646	758.6646	0.0353		759.5472

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.10 Supply Chain Services Warehouse - 2022
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0456	1.4773	0.3842	4.0800e-003	0.1024	2.7800e-003	0.1052	0.0295	2.6600e-003	0.0322		435.9774	435.9774	0.0250		436.6029
Worker	0.1124	0.0745	1.0405	3.0900e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		307.6395	307.6395	8.4900e-003		307.8517
Total	0.1581	1.5518	1.4247	7.1700e-003	0.4154	5.2300e-003	0.4206	0.1125	4.9200e-003	0.1174		743.6169	743.6169	0.0335		744.4546

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.10 Supply Chain Services Warehouse - 2022

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889	0.5689	0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889	0.5689	0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0456	1.4773	0.3842	4.0800e-003	0.1024	2.7800e-003	0.1052	0.0295	2.6600e-003	0.0322		435.9774	435.9774	0.0250		436.6029
Worker	0.1124	0.0745	1.0405	3.0900e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		307.6395	307.6395	8.4900e-003		307.8517
Total	0.1581	1.5518	1.4247	7.1700e-003	0.4154	5.2300e-003	0.4206	0.1125	4.9200e-003	0.1174		743.6169	743.6169	0.0335		744.4546

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2021
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.1649	20.1261	21.2928	0.0335	1.0940	1.0940	1.0940	1.0258	1.0258	1.0258	3,192.7073	3,192.7073	3,192.7073	0.8228		3,213.2770
Total	2.1649	20.1261	21.2928	0.0335	1.0940	1.0940	1.0940	1.0258	1.0258	1.0258		3,192.7073	3,192.7073	0.8228		3,213.2770

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0304	0.9709	0.2538	2.5700e-003	0.0640	1.9900e-003	0.0660	0.0184	1.9000e-003	0.0203		274.8806	274.8806	0.0162		275.2855
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	0.0990	1.0180	0.8983	4.4000e-003	0.2429	3.4400e-003	0.2463	0.0659	3.2300e-003	0.0691		457.0838	457.0838	0.0216		457.6229

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.1649	20.1261	21.2928	0.0335	1.0940	1.0940	1.0940	1.0258	1.0258	1.0258	0.0000	3,192.707 3	3,192.707 3	0.8228		3,213.277 0
Total	2.1649	20.1261	21.2928	0.0335	1.0940	1.0940	1.0940	1.0258	1.0258	1.0258	0.0000	3,192.707 3	3,192.707 3	0.8228		3,213.277 0

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0304	0.9709	0.2538	2.5700e-003	0.0640	1.9900e-003	0.0660	0.0184	1.9000e-003	0.0203			274.8806	0.0162		275.2855
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			182.2032	5.3700e-003		182.3374
Total	0.0990	1.0180	0.8983	4.4000e-003	0.2429	3.4400e-003	0.2463	0.0659	3.2300e-003	0.0691			457.0838	0.0216		457.6229

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2022
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627		3,193.943 3	3,193.943 3	0.8188		3,214.413 4
Total	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627		3,193.943 3	3,193.943 3	0.8188		3,214.413 4

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0285	0.9233	0.2402	2.5500e-003	0.0640	1.7400e-003	0.0658	0.0184	1.6600e-003	0.0201		272.4859	272.4859	0.0156		272.8768
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	0.0928	0.9659	0.8347	4.3100e-003	0.2429	3.1400e-003	0.2460	0.0659	2.9500e-003	0.0688		448.2799	448.2799	0.0205		448.7921

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.9366	17.9145	21.0991	0.0335	0.9194	0.9194	0.9194	0.8627	0.8627	0.8627	0.0000	3,193.943 2	3,193.943 2	0.8188		3,214.413 4
Total	1.9366	17.9145	21.0991	0.0335	0.9194	0.9194	0.9194	0.8627	0.8627	0.8627	0.0000	3,193.943 2	3,193.943 2	0.8188		3,214.413 4

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0285	0.9233	0.2402	2.5500e-003	0.0640	1.7400e-003	0.0658	0.0184	1.6600e-003	0.0201		272.4859	272.4859	0.0156		272.8768
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	0.0928	0.9659	0.8347	4.3100e-003	0.2429	3.1400e-003	0.2460	0.0659	2.9500e-003	0.0688		448.2799	448.2799	0.0205		448.7921

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.12 Street Improvement of Hazeltine Avenue - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133		1.4091	1.4091		4,635.6278	4,635.6278	1.2851		4,667.7547
Total	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133		1.4091	1.4091		4,635.6278	4,635.6278	1.2851		4,667.7547

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.2939	9.2291	2.3058	0.0285	0.7658	0.0265	0.7923	0.2065	0.0254	0.2319		3,097.9073	3,097.9073	0.2096		3,103.1463
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	0.3638	9.4564	2.9484	0.0308	0.9575	0.0283	0.9857	0.2577	0.0270	0.2846		3,328.1984	3,328.1984	0.2175		3,333.6369

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.12 Street Improvement of Hazeltine Avenue - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133		1.4091	1.4091	0.0000	4,635.6278	4,635.6278	1.2851		4,667.7547
Total	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133		1.4091	1.4091	0.0000	4,635.6278	4,635.6278	1.2851		4,667.7547

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.2939	9.2291	2.3058	0.0285	0.7658	0.0265	0.7923	0.2065	0.0254	0.2319		3,097.9073	3,097.9073	0.2096		3,103.1463
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	0.3638	9.4564	2.9484	0.0308	0.9575	0.0283	0.9857	0.2577	0.0270	0.2846		3,328.1984	3,328.1984	0.2175		3,333.6369

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.12 Street Improvement of Hazeltine Avenue - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883		4,636.2626	4,636.2626	1.2809		4,668.2851
Total	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883		4,636.2626	4,636.2626	1.2809		4,668.2851

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.1928	6.0885	2.1048	0.0273	2.6763	0.0110	2.6873	0.6755	0.0106	0.6860		2,968.7586	2,968.7586	0.1950		2,973.6347
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665
Total	0.2573	6.2672	2.6957	0.0295	2.8680	0.0126	2.8805	0.7266	0.0120	0.7386		3,190.8972	3,190.8972	0.2022		3,195.9519

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.12 Street Improvement of Hazeltine Avenue - 2023

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883	0.0000	4,636.2626	4,636.2626	1.2809		4,668.2851
Total	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883	0.0000	4,636.2626	4,636.2626	1.2809		4,668.2851

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.1928	6.0885	2.1048	0.0273	2.6763	0.0110	2.6873	0.6755	0.0106	0.6860		2,968.7586	2,968.7586	0.1950		2,973.6347
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665
Total	0.2573	6.2672	2.6957	0.0295	2.8680	0.0126	2.8805	0.7266	0.0120	0.7386		3,190.8972	3,190.8972	0.2022		3,195.9519

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.13 Architectural Coating - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	68.0396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	68.2441	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0628	2.0313	0.5283	5.6000e-003	0.1409	3.8200e-003	0.1447	0.0406	3.6500e-003	0.0442		599.4690	599.4690	0.0344		600.3290
Worker	0.1767	0.1171	1.6351	4.8500e-003	0.4918	3.8500e-003	0.4957	0.1304	3.5500e-003	0.1340		483.4334	483.4334	0.0133		483.7670
Total	0.2394	2.1484	2.1634	0.0105	0.6327	7.6700e-003	0.6403	0.1710	7.2000e-003	0.1782		1,082.9024	1,082.9024	0.0477		1,084.0960

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

3.13 Architectural Coating - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	68.0396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	68.2441	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0628	2.0313	0.5283	5.6000e-003	0.1409	3.8200e-003	0.1447	0.0406	3.6500e-003	0.0442		599.4690	599.4690	0.0344		600.3290
Worker	0.1767	0.1171	1.6351	4.8500e-003	0.4918	3.8500e-003	0.4957	0.1304	3.5500e-003	0.1340		483.4334	483.4334	0.0133		483.7670
Total	0.2394	2.1484	2.1634	0.0105	0.6327	7.6700e-003	0.6403	0.1710	7.2000e-003	0.1782		1,082.9024	1,082.9024	0.0477		1,084.0960

4.0 Operational Detail - Mobile

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

4.1 Mitigation Measures Mobile

Category	lb/day															
	ROG	NOx	CO	SO2	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	1.1293	4.6555	4.1208	8.5000e-003	0.2026	9.0700e-003	0.2117	0.0542	8.3800e-003	0.0626		888.0088	888.0088	0.0783		889.9654
Unmitigated	1.1293	4.6555	4.1208	8.5000e-003	0.2026	9.0700e-003	0.2117	0.0542	8.3800e-003	0.0626		888.0088	888.0088	0.0783		889.9654

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Automobile Care Center	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Light Industry	1,359.52	257.52	132.24	67,339	67,339
General Light Industry	93.76	17.76	9.12	4,644	4,644
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Research & Development	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	1,453.28	275.28	141.36	71,983	71,983

4.3 Trip Type Information

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	0.19	0.19	0.19	59.00	28.00	13.00	92	5	3
General Light Industry	0.19	0.19	0.19	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Enclosed Parking Structure	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Office Building	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Other Asphalt Surfaces	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Research & Development	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Unrefrigerated Warehouse-No Rail	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
NaturalGas Mitigated	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148,544.7	1,148,544.7	0.0220	0.0211	1,155.3700
NaturalGas Unmitigated	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148,544.7	1,148,544.7	0.0220	0.0211	1,155.3700

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use kBTU/yr	lb/day										lb/day					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Automobile Care Center	446.301	4.8100e-003	0.0438	0.0368	2.6000e-004	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	52.5060	52.5060	52.5060	1.0100e-003	9.6000e-004	52.8181
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	396.712	4.2800e-003	0.0389	0.0327	2.3000e-004	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	46.6720	46.6720	46.6720	8.9000e-004	8.6000e-004	46.9494
General Light Industry	5752.33	0.0620	0.5640	0.4737	3.3800e-003	0.0429	0.0429	0.0429	0.0429	0.0429	0.0429	676.7446	676.7446	676.7446	0.0130	0.0124	680.7661
General Office Building	1967.92	0.0212	0.1929	0.1621	1.1600e-003	0.0147	0.0147	0.0147	0.0147	0.0147	0.0147	231.5197	231.5197	231.5197	4.4400e-003	4.2400e-003	232.8956
General Office Building	85.5616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	10.0661	10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	942.192	0.0102	0.0924	0.0776	5.5000e-004	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	110.8461	110.8461	110.8461	2.1200e-003	2.0300e-003	111.5048
Unrefrigerated Warehouse-No Rail	171.616	1.8500e-003	0.0168	0.0141	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	20.1902	20.1902	20.1902	3.9000e-004	3.7000e-004	20.3102
Total		0.1053	0.9571	0.8040	5.7300e-003	0.0728	0.0728	0.0728	0.0728	0.0728	0.0728	1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700	

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use kBTU/yr	lb/day										lb/day					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Automobile Care Center	0.446301	4.8100e-003	0.0438	0.0368	2.6000e-004	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	52.5060	52.5060	52.5060	1.0100e-003	9.6000e-004	52.8181
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0.396712	4.2800e-003	0.0389	0.0327	2.3000e-004	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	46.6720	46.6720	46.6720	8.9000e-004	8.6000e-004	46.9494
General Light Industry	5.75233	0.0620	0.5640	0.4737	3.3800e-003	0.0429	0.0429	0.0429	0.0429	0.0429	0.0429	676.7446	676.7446	676.7446	0.0130	0.0124	680.7661
General Office Building	0.0855616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	10.0661	10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
General Office Building	1.96792	0.0212	0.1929	0.1621	1.1600e-003	0.0147	0.0147	0.0147	0.0147	0.0147	0.0147	231.5197	231.5197	231.5197	4.4400e-003	4.2400e-003	232.8956
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	0.942192	0.0102	0.0924	0.0776	5.5000e-004	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	110.8461	110.8461	110.8461	2.1200e-003	2.0300e-003	111.5048
Unrefrigerated Warehouse-No Rail	0.171616	1.8500e-003	0.0168	0.0141	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	20.1902	20.1902	20.1902	3.9000e-004	3.7000e-004	20.3102
Total		0.1053	0.9571	0.8040	5.7300e-003	0.0728	0.0728	0.0728	0.0728	0.0728	0.0728	1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700	

6.0 Area Detail

6.1 Mitigation Measures Area

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Mitigated	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Unmitigated	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.7829				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0057				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	6.6100e-003	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Total	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.7829				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0057				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	6.6700e-003	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Total	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	10	4.00	260	89	0.20	Diesel

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Summer

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Forklifts	0.4345	4.0927	5.6688	7.6400e-003	0.2191	0.2191	0.2191	0.2016	0.2016	0.2016	740.1542	740.1542	740.1542	0.2394		746.1387
Total	0.4345	4.0927	5.6688	7.6400e-003	0.2191	0.2191	0.2191	0.2016	0.2016	0.2016	740.1542	740.1542	740.1542	0.2394		746.1387

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

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Mid Valley Water Facility Unmitigated
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	69.00	1000sqft	1.58	69,000.00	0
General Office Building	3.00	1000sqft	0.07	3,000.00	0
Research & Development	19.00	1000sqft	0.44	19,000.00	0
General Light Industry	116.00	1000sqft	2.66	116,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Unrefrigerated Warehouse-No Rail	72.00	1000sqft	1.65	72,000.00	0
Enclosed Parking Structure	216.00	1000sqft	4.96	216,000.00	0
Other Asphalt Surfaces	181.00	1000sqft	4.16	181,000.00	0
Other Asphalt Surfaces	12.00	1000sqft	0.28	12,000.00	0
Automobile Care Center	9.00	1000sqft	0.21	9,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2026

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	758.16	CH4 Intensity (lb/MW/hr)	0.018	N2O Intensity (lb/MW/hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Project Characteristics - Los Angeles Department of Water and Power adjusted for 43.2% RPS in 2026

Land Use -

Construction Phase - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Grading - Data provided by applicant.

Trips and VMT - Data provided by applicant.

Vehicle Trips - Data provided by Traffic Report.

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Data provided by applicant.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	42.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

tblConstructionPhase	NumDays	300.00	22.00
tblConstructionPhase	NumDays	300.00	108.00
tblConstructionPhase	NumDays	30.00	130.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	300.00	195.00
tblConstructionPhase	NumDays	300.00	238.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	300.00	238.00
tblGrading	AcresOfGrading	325.00	6.57
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	UsageHours	7.00	4.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	10.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	1227.89	758.16
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	HaulingTripNumber	0.00	11,118.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,000.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	22.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	16.00
tblTripsAndVMT	VendorTripNumber	116.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	12.00
tblTripsAndVMT	VendorTripNumber	116.00	24.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	6.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	57.00	44.00
tblTripsAndVMT	WorkerTripNumber	286.00	68.00
tblTripsAndVMT	WorkerTripNumber	286.00	28.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	18.00
tblTripsAndVMT	WorkerTripNumber	286.00	48.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	1.32	2.22
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.68	1.14
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	6.97	11.72
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	8.11	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
2020	5.2424	74.7465	37.1757	0.1299	18.2803	2.2711	20.4804	9.9877	2.0924	12.0119	0.0000	13,369.43 54	13,369.43	2.3855	0.0000	13,429.07 19
2021	11.4382	91.9127	92.0064	0.1736	8.0058	4.5099	10.0707	3.8367	4.2938	5.7390	0.0000	16,446.43 34	16,446.43	2.8737	0.0000	16,518.27 64
2022	72.0699	83.6387	90.3452	0.1727	2.4122	3.8401	6.2523	0.6493	3.6585	4.3078	0.0000	16,362.55 37	16,362.55	2.8259	0.0000	16,433.20 12
2023	3.1436	34.5567	27.8332	0.0779	2.8680	1.2882	4.1562	0.7266	1.2002	1.9268	0.0000	7,827.159 8	7,827.159	1.4831	0.0000	7,864.237 0
Maximum	72.0699	91.9127	92.0064	0.1736	18.2803	4.5099	20.4804	9.9877	4.2938	12.0119	0.0000	16,446.43 34	16,446.43	2.8737	0.0000	16,518.27 64

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

**2.2 Overall Operational
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Area	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Energy	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727	1,148.5447	1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700
Mobile	2.3385	10.4598	34.7547	0.1481	13.6808	0.1065	13.7873	3.6602	0.0989	3.7591	15,110.1688	15,110.1688	15,110.1688	0.6524		15,126.4793
Offroad	0.4366	4.1132	5.6971	7.6800e-003	0.2202	0.2202	0.2202	0.2026	0.2026	0.2026	743.8549	743.8549	743.8549	0.2406		749.8694
Total	9.6756	15.5308	41.3275	0.1615	13.6808	0.3997	14.0805	3.6602	0.3745	4.0346	17,002.7227	17,002.7227	17,002.7227	0.9154	0.0211	17,031.8829

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

2.2 Overall Operational

Mitigated Operational

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	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	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643
Energy	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700
Mobile	2.3385	10.4598	34.7547	0.1481	13.6808	0.1065	13.7873	3.6602	0.0989	3.7591		15,110.1688	15,110.1688	0.6524		15,126.4793
Offroad	0.4366	4.1132	5.6971	7.6800e-003		0.2202	0.2202	0.2026	0.2026	0.2026		743.8549	743.8549	0.2406		749.8694
Total	9.6756	15.5308	41.3275	0.1615	13.6808	0.3997	14.0805	3.6602	0.3745	4.0346		17,002.7227	17,002.7227	0.9154	0.0211	17,031.8829

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

3.0 Construction Detail

Construction Phase

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/1/2020	11/30/2020	5	21	
2	Grading	Grading	12/1/2020	5/31/2021	5	130	
3	Perimeter Walls Construction	Building Construction	7/1/2021	7/30/2021	5	22	
4	Paving & Site Infrastructure	Paving	8/1/2021	8/21/2021	5	15	
5	Street Improvement of Hazeltine Avenue	Building Construction	9/1/2022	1/30/2023	5	108	
6	Architectural Coating	Architectural Coating	9/1/2022	10/30/2022	5	42	
7	Trenching & Underground Utilities	Trenching	7/1/2021	7/30/2021	5	22	
8	Office Building & Staff Parking	Building Construction	9/1/2021	5/31/2022	5	195	
9	Water Distribution Shop and Maintenance Building	Building Construction	9/1/2021	7/30/2022	5	238	
10	Department Fleet Vehicles Parking	Building Construction	9/1/2021	8/31/2022	5	261	
11	Supply Chain Services Warehouse	Building Construction	9/1/2021	8/31/2022	5	261	
12	Fleet Maintenance Building and CNG Dispensing Area	Building Construction	9/1/2021	7/30/2022	5	238	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.57

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 444,000; Non-Residential Outdoor: 148,000; Striped Parking Area: 24,540 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Office Building & Staff Parking	Cranes	1	4.00	231	0.29
Office Building & Staff Parking	Forklifts	2	6.00	89	0.20
Office Building & Staff Parking	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Office Building & Staff Parking	Forklifts	2	7.00	89	0.20
Office Building & Staff Parking	Generator Sets	1	8.00	84	0.74
Office Building & Staff Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Office Building & Staff Parking	Welders	3	8.00	46	0.45
Water Distribution Shop and Maintenance Building	Cranes	1	8.00	231	0.29
Water Distribution Shop and Maintenance Building	Forklifts	2	7.00	89	0.20
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Perimeter Walls Construction	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Perimeter Walls Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Street Improvement of Hazeltine Avenue	Excavators	1	8.00	158	0.38
Street Improvement of Hazeltine Avenue	Graders	1	8.00	187	0.41
Street Improvement of Hazeltine Avenue	Rubber Tired Dozers	1	8.00	247	0.40
Trenching & Underground Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching & Underground Utilities	Plate Compactors	1	8.00	8	0.43
Trenching & Underground Utilities	Trenchers	1	8.00	78	0.50
Water Distribution Shop and Maintenance Building	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Water Distribution Shop and Maintenance Building	Welders	3	8.00	46	0.45
Water Distribution Shop and Maintenance Building	Generator Sets	1	8.00	84	0.74
Department Fleet Vehicles Parking	Cranes	1	8.00	231	0.29
Department Fleet Vehicles Parking	Forklifts	2	7.00	89	0.20

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Department Fleet Vehicles Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Department Fleet Vehicles Parking	Welders	3	8.00	46	0.45
Paving & Site Infrastructure	Pavers	2	8.00	130	0.42
Department Fleet Vehicles Parking	Generator Sets	1	8.00	84	0.74
Supply Chain Services Warehouse	Cranes	1	6.00	231	0.29
Architectural Coating	Air Compressors	1	6.00	78	0.48
Supply Chain Services Warehouse	Forklifts	1	6.00	89	0.20
Supply Chain Services Warehouse	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Supply Chain Services Warehouse	Welders	3	8.00	46	0.45
Street Improvement of Hazeltine Avenue	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Supply Chain Services Warehouse	Generator Sets	1	8.00	84	0.74
Perimeter Walls Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Perimeter Walls Construction	Paving Equipment	1	8.00	132	0.36
Fleet Maintenance Building and CNG Dispensing Area	Cranes	1	4.00	231	0.29
Fleet Maintenance Building and CNG Dispensing Area	Forklifts	2	6.00	89	0.20
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Pavers	1	6.00	130	0.42
Fleet Maintenance Building and CNG Dispensing Area	Rollers	1	7.00	80	0.38
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Paving Equipment	1	8.00	132	0.36
Perimeter Walls Construction	Cranes	1	7.00	231	0.29
Street Improvement of Hazeltine Avenue	Cranes	1	7.00	231	0.29
Perimeter Walls Construction	Forklifts	3	8.00	89	0.20
Street Improvement of Hazeltine Avenue	Forklifts	3	8.00	89	0.20
Fleet Maintenance Building and CNG Dispensing Area	Generator Sets	1	8.00	84	0.74

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Perimeter Walls Construction	Generator Sets	1	8.00	84	0.74
Street Improvement of Hazeltine Avenue	Generator Sets	1	8.00	84	0.74
Paving & Site Infrastructure	Paving Equipment	2	8.00	132	0.36
Paving & Site Infrastructure	Rollers	2	8.00	80	0.38
Grading	Scrapers	2	8.00	367	0.48
Perimeter Walls Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Welders	1	8.00	46	0.45
Perimeter Walls Construction	Welders	1	8.00	46	0.45
Street Improvement of Hazeltine Avenue	Welders	1	8.00	46	0.45

Trips and VMT

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	2.00	11,118.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Site Infrastructure	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvement of Hazeltine Avenue	12	16.00	2.00	4,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Department Fleet Vehicles Parking	8	68.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Supply Chain Services Warehouse	7	28.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fleet Maintenance Building and CNG Dis	11	16.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching & Underground Utilities	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Office Building & Staff Parking	12	18.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Water Distribution System and Maintenance	8	48.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.2 Site Preparation - 2020
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380	2.1974	2.1974	2.1974	2.0216	2.0216	2.0216		3.685.101 6	3.685.101 6	1.1918		3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.101 6	3,685.101 6	1.1918		3,714.897 5

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	0.0900	0.2717	0.8439	2.6500e-003	0.2140	2.6800e-003	0.2167	0.0571	2.5100e-003	0.0596		267.1053	267.1053	0.0101		267.3566

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.2 Site Preparation - 2020

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380	2.1974	2.1974	2.1974	2.0216	2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.0458	2.1974	9.2433	3.8730	2.0216	5.8946	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549	211.7003	211.7003	211.7003	6.6700e-003		211.8672
Total	0.0900	0.2717	0.8439	2.6500e-003	0.2140	2.6800e-003	0.2167	0.0571	2.5100e-003	0.0596		267.1053	267.1053	0.0101		267.3566

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.3 Grading - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					6.0757	0.0000	6.0757	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	4.4146	49.8900	30.9702	0.0599	2.1902	2.1902	2.1902	2.0149	2.0149	2.0149		5,806.5154	5,806.5154	1.8779		5,853.4640
Total	4.4146	49.8900	30.9702	0.0599	6.0757	2.1902	8.2658	3.3160	2.0149	5.3310		5,806.5154	5,806.5154	1.8779		5,853.4640

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7470	24.5914	5.4492	0.0676	6.7556	0.0785	6.8341	1.7011	0.0751	1.7761		7,319.3370	7,319.3370	0.4982		7,331.7920
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0736	0.0524	0.7006	1.8900e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		188.1781	188.1781	5.9300e-003		188.3264
Total	0.8278	24.8565	6.2055	0.0700	6.9472	0.0810	7.0282	1.7522	0.0774	1.8296		7,562.9200	7,562.9200	0.5075		7,575.6079

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.3 Grading - 2020

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					2.3695	0.0000	2.3695	1.2933	0.0000	1.2933			0.0000			0.0000
Off-Road	4.4146	49.8900	30.9702	0.0599	2.1902	2.1902	2.1902	2.0149	2.0149	2.0149	0.0000	5,806.5154	5,806.5154	1.8779		5,853.4640
Total	4.4146	49.8900	30.9702	0.0599	2.3695	2.1902	4.5597	1.2933	2.0149	3.3082	0.0000	5,806.5154	5,806.5154	1.8779		5,853.4640

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7470	24.5914	5.4492	0.0676	6.7556	0.0785	6.8341	1.7011	0.0751	1.7761			7,319.3370	0.4982		7,331.7920
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003			55.4049	3.3800e-003		55.4895
Worker	0.0736	0.0524	0.7006	1.8900e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488			188.1781	5.9300e-003		188.3264
Total	0.8278	24.8565	6.2055	0.0700	6.9472	0.0810	7.0282	1.7522	0.0774	1.8296			7,562.9200	0.5075		7,575.6079

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.3 Grading - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					6.0757	0.0000	6.0757	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600	1.9927	1.9927	1.9927	1.8333	1.8333	1.8333		5,807.7515	5,807.7515	1.8783		5,854.7102
Total	4.1493	46.1422	29.8669	0.0600	6.0757	1.9927	8.0684	3.3160	1.8333	5.1493		5,807.7515	5,807.7515	1.8783		5,854.7102

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7131	22.9410	5.3790	0.0667	1.7385	0.0704	1.8089	0.4696	0.0674	0.5369			7,239.0690	0.4913		7,251.3507
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003			54.9761	3.2400e-003		55.0571
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			182.2032	5.3700e-003		182.3374
Total	0.7877	23.1823	6.0742	0.0691	1.9301	0.0723	2.0024	0.5207	0.0691	0.5898		7,476.2483	7,476.2483	0.4999		7,488.7452

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.3 Grading - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					2.3695	0.0000	2.3695	1.2933	0.0000	1.2933			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600	1.9927	1.9927	1.9927	1.8333	1.8333	1.8333	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102
Total	4.1493	46.1422	29.8669	0.0600	2.3695	1.9927	4.3622	1.2933	1.8333	3.1265	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7131	22.9410	5.3790	0.0667	1.7385	0.0704	1.8089	0.4696	0.0674	0.5369			7,239.0690	0.4913		7,251.3507
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003			54.9761	3.2400e-003		55.0571
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			182.2032	5.3700e-003		182.3374
Total	0.7877	23.1823	6.0742	0.0691	1.9301	0.0723	2.0024	0.5207	0.0691	0.5898		7,476.2483	7,476.2483	0.4999		7,488.7452

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.4 Perimeter Walls Construction - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	4,503.0630	4,503.0630	4,503.0630	1.0782		4,530.0187
Total	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	4,503.0630	4,503.0630	4,503.0630	1.0782		4,530.0187

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0621	7.9000e-004	0.0629	0.0163	7.6000e-004	0.0171			109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.1837	5.4000e-004	0.1842	0.0464	5.0000e-004	0.0469			68.3262	2.0100e-003		68.3765
Total	0.0379	0.4060	0.3432	1.7200e-003	0.2458	1.3300e-003	0.2471	0.0627	1.2600e-003	0.0640			178.2784	8.4900e-003		178.4907

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.4 Perimeter Walls Construction - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	0.0000	4,503.0630	4,503.0630	1.0782		4,530.0187
Total	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	0.0000	4,503.0630	4,503.0630	1.0782		4,530.0187

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0621	7.9000e-004	0.0629	0.0163	7.6000e-004	0.0171			109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.1837	5.4000e-004	0.1842	0.0464	5.0000e-004	0.0469			68.3262	2.0100e-003		68.3765
Total	0.0379	0.4060	0.3432	1.7200e-003	0.2458	1.3300e-003	0.2471	0.0627	1.2600e-003	0.0640			178.2784	8.4900e-003		178.4907

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.5 Paving & Site Infrastructure - 2021
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.2556	12.9191	14.6532	0.0228	0.6777	0.6777	0.6777	0.6235	0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7755				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	2.0311	12.9191	14.6532	0.0228	0.6777	0.6777	0.6777	0.6235	0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	0.0807	0.4355	0.7460	2.8600e-003	0.2045	2.2400e-003	0.2067	0.0548	2.0900e-003	0.0569		292.1554	292.1554	0.0119		292.4516

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.5 Paving & Site Infrastructure - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777	0.6235	0.6235	0.6235	0.0000	2,207.210 ₉	2,207.210 ₉	0.7139		2,225.057 ₃
Paving	0.7755					0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000			0.0000
Total	2.0311	12.9191	14.6532	0.0228		0.6777	0.6777	0.6235	0.6235	0.6235	0.0000	2,207.210₉	2,207.210₉	0.7139		2,225.057₃

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003	109.9523	109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488	182.2032	182.2032	182.2032	5.3700e-003		182.3374
Total	0.0807	0.4355	0.7460	2.8600e-003	0.2045	2.2400e-003	0.2067	0.0548	2.0900e-003	0.0569		292.1554	292.1554	0.0119		292.4516

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.6 Street Improvement of Hazeltine Avenue - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091		4,635.6278	4,635.6278	1.2851		4,667.7547
Total	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091		4,635.6278	4,635.6278	1.2851		4,667.7547

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.2939	9.2291	2.3058	0.0285	0.7658	0.0265	0.7923	0.2065	0.0254	0.2319		3,097.9073	3,097.9073	0.2096		3,103.1463
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	0.3638	9.4564	2.9484	0.0308	0.9575	0.0283	0.9857	0.2577	0.0270	0.2846		3,328.1984	3,328.1984	0.2175		3,333.6369

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.6 Street Improvement of Hazeltine Avenue - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091	0.0000	4,635.6278	4,635.6278	1.2851		4,667.7547
Total	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091	0.0000	4,635.6278	4,635.6278	1.2851		4,667.7547

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.2939	9.2291	2.3058	0.0285	0.7658	0.0265	0.7923	0.2065	0.0254	0.2319		3,097.9073	3,097.9073	0.2096		3,103.1463
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	0.3638	9.4564	2.9484	0.0308	0.9575	0.0283	0.9857	0.2577	0.0270	0.2846		3,328.1984	3,328.1984	0.2175		3,333.6369

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.6 Street Improvement of Hazeltine Avenue - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883		4,636.2626	4,636.2626	1.2809		4,668.2851
Total	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883		4,636.2626	4,636.2626	1.2809		4,668.2851

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.1928	6.0885	2.1048	0.0273	2.6763	0.0110	2.6873	0.6755	0.0106	0.6860		2,968.7586	2,968.7586	0.1950		2,973.6347
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665
Total	0.2573	6.2672	2.6957	0.0295	2.8680	0.0126	2.8805	0.7266	0.0120	0.7386		3,190.8972	3,190.8972	0.2022		3,195.9519

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.6 Street Improvement of Hazeltine Avenue - 2023

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883	0.0000	4,636.2626	4,636.2626	1.2809		4,668.2851
Total	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883	0.0000	4,636.2626	4,636.2626	1.2809		4,668.2851

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.1928	6.0885	2.1048	0.0273	2.6763	0.0110	2.6873	0.6755	0.0106	0.6860		2,968.7586	2,968.7586	0.1950		2,973.6347
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0603	0.0385	0.5475	1.7000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		169.3571	169.3571	4.3700e-003		169.4665
Total	0.2573	6.2672	2.6957	0.0295	2.8680	0.0126	2.8805	0.7266	0.0120	0.7386		3,190.8972	3,190.8972	0.2022		3,195.9519

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2022
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	68.0396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	68.2441	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0628	2.0313	0.5283	5.6000e-003	0.1409	3.8200e-003	0.1447	0.0406	3.6500e-003	0.0442		599.4690	599.4690	0.0344		600.3290
Worker	0.1767	0.1171	1.6351	4.8500e-003	0.4918	3.8500e-003	0.4957	0.1304	3.5500e-003	0.1340		483.4334	483.4334	0.0133		483.7670
Total	0.2394	2.1484	2.1634	0.0105	0.6327	7.6700e-003	0.6403	0.1710	7.2000e-003	0.1782		1,082.9024	1,082.9024	0.0477		1,084.0960

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.7 Architectural Coating - 2022
Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	68.0396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	68.2441	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0628	2.0313	0.5283	5.6000e-003	0.1409	3.8200e-003	0.1447	0.0406	3.6500e-003	0.0442			599.4690	0.0344		600.3290
Worker	0.1767	0.1171	1.6351	4.8500e-003	0.4918	3.8500e-003	0.4957	0.1304	3.5500e-003	0.1340			483.4334	0.0133		483.7670
Total	0.2394	2.1484	2.1634	0.0105	0.6327	7.6700e-003	0.6403	0.1710	7.2000e-003	0.1782			1,082.9024	0.0477		1,084.0960

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.8 Trenching & Underground Utilities - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500		963.2020	963.2020	0.3040		970.8007
Total	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500		963.2020	963.2020	0.3040		970.8007

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	0.0490	0.2236	0.4635	1.6500e-003	0.1246	1.3000e-003	0.1259	0.0333	1.2100e-003	0.0346		168.8531	168.8531	6.6000e-003		169.0180

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.8 Trenching & Underground Utilities - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500	0.0000	963.2020	963.2020	0.3040		970.8007
Total	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500	0.0000	963.2020	963.2020	0.3040		970.8007

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	0.0490	0.2236	0.4535	1.6500e-003	0.1246	1.3000e-003	0.1259	0.0333	1.2100e-003	0.0346		168.8531	168.8531	6.6000e-003		169.0180

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.9 Office Building & Staff Parking - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137		2.833.4125	2.833.4125	0.6264		2.849.0729
Total	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137		2.833.4125	2.833.4125	0.6264		2.849.0729

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0365	1.1651	0.3046	3.0900e-003	0.0768	2.3800e-003	0.0792	0.0221	2.2800e-003	0.0244		329.8568	329.8568	0.0194		330.3426
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	0.1136	1.2181	1.0296	5.1500e-003	0.2780	4.0100e-003	0.2820	0.0755	3.7800e-003	0.0793		534.8353	534.8353	0.0255		535.4722

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.9 Office Building & Staff Parking - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137	0.0000	2.833.4125	2.833.4125	0.6264		2.849.0729
Total	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137	0.0000	2.833.4125	2.833.4125	0.6264		2.849.0729

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0365	1.1651	0.3046	3.0900e-003	0.0768	2.3800e-003	0.0792	0.0221	2.2800e-003	0.0244		329.8568	329.8568	0.0194		330.3426
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	0.1136	1.2181	1.0296	5.1500e-003	0.2780	4.0100e-003	0.2820	0.0755	3.7800e-003	0.0793		534.8353	534.8353	0.0255		535.4722

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.9 Office Building & Staff Parking - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	2,834.390 2	2,834.390 2	2,834.390 2	0.6180		2,849.839 4
Total	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	2,834.390 2	2,834.390 2	2,834.390 2	0.6180		2,849.839 4

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0342	1.1080	0.2882	3.0600e-003	0.0768	2.0800e-003	0.0789	0.0221	1.9900e-003	0.0241		326.9831	326.9831	0.0188		327.4522
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
Total	0.1065	1.1559	0.9571	5.0400e-003	0.2780	3.6500e-003	0.2817	0.0755	3.4400e-003	0.0789		524.7513	524.7513	0.0242		525.3569

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.9 Office Building & Staff Parking - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	0.0000	2,834.390 2	2,834.390 2	0.6180		2,849.839 4
Total	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	0.0000	2,834.390 2	2,834.390 2	0.6180		2,849.839 4

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0342	1.1080	0.2882	3.0600e-003	0.0768	2.0800e-003	0.0789	0.0221	1.9900e-003	0.0241		326.9831	326.9831	0.0188		327.4522
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
Total	0.1065	1.1559	0.9571	5.0400e-003	0.2780	3.6500e-003	0.2817	0.0755	3.4400e-003	0.0789		524.7513	524.7513	0.0242		525.3569

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.10 Water Distribution Shop and Maintenance Building - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	2,288.9355	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	2,288.9355	2,288.9355	2,288.9355	0.4503		2,300.1935

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0730	2.3302	0.6092	6.1700e-003	0.1537	4.7600e-003	0.1584	0.0442	4.5600e-003	0.0488			659.7135	0.0389		660.6852
Worker	0.2058	0.1414	1.9333	5.4900e-003	0.5365	4.3400e-003	0.5409	0.1423	3.9900e-003	0.1463			546.6095	0.0161		547.0122
Total	0.2787	2.4716	2.5425	0.0117	0.6902	9.1000e-003	0.6993	0.1865	8.5500e-003	0.1951	1,206.3230	1,206.3230	1,206.3230	0.0550		1,207.6973

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.10 Water Distribution Shop and Maintenance Building - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0730	2.3302	0.6092	6.1700e-003	0.1537	4.7600e-003	0.1584	0.0442	4.5600e-003	0.0488		659.7135	659.7135	0.0389		660.6852
Worker	0.2058	0.1414	1.9333	5.4900e-003	0.5365	4.3400e-003	0.5409	0.1423	3.9900e-003	0.1463		546.6095	546.6095	0.0161		547.0122
Total	0.2787	2.4716	2.5425	0.0117	0.6902	9.1000e-003	0.6993	0.1865	8.5500e-003	0.1951		1,206.3230	1,206.3230	0.0550		1,207.6973

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.10 Water Distribution Shop and Maintenance Building - 2022

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281 ₃	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281₃	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0685	2.2159	0.5764	6.1100e-003	0.1537	4.1700e-003	0.1578	0.0442	3.9800e-003	0.0482		653.9661	653.9661	0.0375		654.9044
Worker	0.1927	0.1278	1.7837	5.2900e-003	0.5365	4.2000e-003	0.5407	0.1423	3.8700e-003	0.1462		527.3819	527.3819	0.0146		527.7458
Total	0.2612	2.3437	2.3601	0.0114	0.6902	8.3700e-003	0.6986	0.1865	7.8500e-003	0.1944		1,181,348₀	1,181,348₀	0.0521		1,182,650₂

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.10 Water Distribution Shop and Maintenance Building - 2022

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0685	2.2159	0.5764	6.1100e-003	0.1537	4.1700e-003	0.1578	0.0442	3.9800e-003	0.0482		653.9661	653.9661	0.0375		654.9044
Worker	0.1927	0.1278	1.7837	5.2900e-003	0.5365	4.2000e-003	0.5407	0.1423	3.8700e-003	0.1462		527.3819	527.3819	0.0146		527.7458
Total	0.2612	2.3437	2.3601	0.0114	0.6902	8.3700e-003	0.6986	0.1865	7.8500e-003	0.1944		1,181,348₀	1,181,348₀	0.0521		1,182,650₂

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.11 Department Fleet Vehicles Parking - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.2915	0.2004	2.7389	7.7700e-003	0.7601	6.1400e-003	0.7662	0.2016	5.6600e-003	0.2072		774.3635	774.3635	0.0228		774.9339
Total	0.3037	0.5887	2.8404	8.8000e-003	0.7857	6.9300e-003	0.7926	0.2090	6.4200e-003	0.2154		884.3158	884.3158	0.0293		885.0481

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.11 Department Fleet Vehicles Parking - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.2915	0.2004	2.7389	7.7700e-003	0.7601	6.1400e-003	0.7662	0.2016	5.6600e-003	0.2072		774.3635	774.3635	0.0228		774.9339
Total	0.3037	0.5887	2.8404	8.8000e-003	0.7857	6.9300e-003	0.7926	0.2090	6.4200e-003	0.2154		884.3158	884.3158	0.0293		885.0481

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.11 Department Fleet Vehicles Parking - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0114	0.3693	0.0961	1.0200e-003	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0400e-003		108.9944	108.9944	6.2500e-003		109.1507
Worker	0.2730	0.1810	2.5269	7.5000e-003	0.7601	5.9500e-003	0.7660	0.2016	5.4800e-003	0.2071		747.1244	747.1244	0.0206		747.6399
Total	0.2845	0.5503	2.6230	8.5200e-003	0.7857	6.6400e-003	0.7923	0.2090	6.1400e-003	0.2151		856.1187	856.1187	0.0269		856.7906

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.11 Department Fleet Vehicles Parking - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0114	0.3693	0.0961	1.0200e-003	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0400e-003		108.9944	108.9944	6.2500e-003		109.1507
Worker	0.2730	0.1810	2.5269	7.5000e-003	0.7601	5.9500e-003	0.7660	0.2016	5.4800e-003	0.2071		747.1244	747.1244	0.0206		747.6399
Total	0.2845	0.5503	2.6230	8.5200e-003	0.7857	6.6400e-003	0.7923	0.2090	6.1400e-003	0.2151		856.1187	856.1187	0.0269		856.7906

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.12 Supply Chain Services Warehouse - 2021
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0486	1.5534	0.4061	4.1100e-003	0.1024	3.1800e-003	0.1056	0.0295	3.0400e-003	0.0325		439.8090	439.8090	0.0259		440.4568
Worker	0.1200	0.0825	1.1278	3.2000e-003	0.3130	2.5300e-003	0.3155	0.0830	2.3300e-003	0.0853		318.8556	318.8556	9.4000e-003		319.0904
Total	0.1687	1.6359	1.5339	7.3100e-003	0.4154	5.7100e-003	0.4211	0.1125	5.3700e-003	0.1179		758.6646	758.6646	0.0353		759.5472

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.12 Supply Chain Services Warehouse - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0486	1.5534	0.4061	4.1100e-003	0.1024	3.1800e-003	0.1056	0.0295	3.0400e-003	0.0325		439.8090	439.8090	0.0259		440.4568
Worker	0.1200	0.0825	1.1278	3.2000e-003	0.3130	2.5300e-003	0.3155	0.0830	2.3300e-003	0.0853		318.8556	318.8556	9.4000e-003		319.0904
Total	0.1687	1.6359	1.5339	7.3100e-003	0.4154	5.7100e-003	0.4211	0.1125	5.3700e-003	0.1179		758.6646	758.6646	0.0353		759.5472

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.12 Supply Chain Services Warehouse - 2022
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0456	1.4773	0.3842	4.0800e-003	0.1024	2.7800e-003	0.1052	0.0295	2.6600e-003	0.0322		435.9774	435.9774	0.0250		436.6029
Worker	0.1124	0.0745	1.0405	3.0900e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		307.6395	307.6395	8.4900e-003		307.8517
Total	0.1581	1.5518	1.4247	7.1700e-003	0.4154	5.2300e-003	0.4206	0.1125	4.9200e-003	0.1174		743.6169	743.6169	0.0335		744.4546

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.12 Supply Chain Services Warehouse - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0456	1.4773	0.3842	4.0800e-003	0.1024	2.7800e-003	0.1052	0.0295	2.6600e-003	0.0322		435.9774	435.9774	0.0250		436.6029
Worker	0.1124	0.0745	1.0405	3.0900e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		307.6395	307.6395	8.4900e-003		307.8517
Total	0.1581	1.5518	1.4247	7.1700e-003	0.4154	5.2300e-003	0.4206	0.1125	4.9200e-003	0.1174		743.6169	743.6169	0.0335		744.4546

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940		1.0258	1.0258		3,192.707 3	3,192.707 3	0.8228		3,213.277 0
Total	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940		1.0258	1.0258		3,192.707 3	3,192.707 3	0.8228		3,213.277 0

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0304	0.9709	0.2538	2.5700e-003	0.0640	1.9900e-003	0.0660	0.0184	1.9000e-003	0.0203		274.8806	274.8806	0.0162		275.2855
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		182.2032	182.2032	5.3700e-003		182.3374
Total	0.0990	1.0180	0.8983	4.4000e-003	0.2429	3.4400e-003	0.2463	0.0659	3.2300e-003	0.0691		457.0838	457.0838	0.0216		457.6229

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.1649	20.1261	21.2928	0.0335	1.0940	1.0940	1.0940	1.0258	1.0258	1.0258	0.0000	3,192.707 3	3,192.707 3	0.8228		3,213.277 0
Total	2.1649	20.1261	21.2928	0.0335	1.0940	1.0940	1.0940	1.0258	1.0258	1.0258	0.0000	3,192.707 3	3,192.707 3	0.8228		3,213.277 0

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0304	0.9709	0.2538	2.5700e-003	0.0640	1.9900e-003	0.0660	0.0184	1.9000e-003	0.0203			274.8806	0.0162		275.2855
Worker	0.0686	0.0471	0.6444	1.8300e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			182.2032	5.3700e-003		182.3374
Total	0.0990	1.0180	0.8983	4.4000e-003	0.2429	3.4400e-003	0.2463	0.0659	3.2300e-003	0.0691			457.0838	0.0216		457.6229

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194		0.8627	0.8627		3,193.943 3	3,193.943 3	0.8188		3,214.413 4
Total	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194		0.8627	0.8627		3,193.943	3,193.943	0.8188		3,214.413
lb/day																

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0285	0.9233	0.2402	2.5500e-003	0.0640	1.7400e-003	0.0658	0.0184	1.6600e-003	0.0201		272.4859	272.4859	0.0156		272.8768
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	0.0928	0.9659	0.8347	4.3100e-003	0.2429	3.1400e-003	0.2460	0.0659	2.9500e-003	0.0688		448.2799	448.2799	0.0205		448.7921
lb/day																

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.9366	17.9145	21.0991	0.0335	0.9194	0.9194	0.9194	0.8627	0.8627	0.8627	0.0000	3,193.9432	3,193.9432	0.8188		3,214.4134
Total	1.9366	17.9145	21.0991	0.0335	0.9194	0.9194	0.9194	0.8627	0.8627	0.8627	0.0000	3,193.9432	3,193.9432	0.8188		3,214.4134

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0285	0.9233	0.2402	2.5500e-003	0.0640	1.7400e-003	0.0658	0.0184	1.6600e-003	0.0201		272.4859	272.4859	0.0156		272.8768
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	0.0928	0.9659	0.8347	4.3100e-003	0.2429	3.1400e-003	0.2460	0.0659	2.9500e-003	0.0688		448.2799	448.2799	0.0205		448.7921

4.0 Operational Detail - Mobile

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

4.1 Mitigation Measures Mobile

Category	lb/day															
	ROG	NOx	CO	SO2	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	2.3385	10.4598	34.7547	0.1481	13.6808	0.1065	13.7873	3.6602	0.0989	3.7591	15,110.1688	15,110.1688	0.6524			15,126.4793
Unmitigated	2.3385	10.4598	34.7547	0.1481	13.6808	0.1065	13.7873	3.6602	0.0989	3.7591	15,110.1688	15,110.1688	0.6524			15,126.4793

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Automobile Care Center	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Light Industry	1,359.52	257.52	132.24	4,546,804	4,546,804
General Light Industry	93.76	17.76	9.12	313,573	313,573
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Research & Development	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	1,453.28	275.28	141.36	4,860,376	4,860,376

4.3 Trip Type Information

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Enclosed Parking Structure	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Office Building	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Other Asphalt Surfaces	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Research & Development	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Unrefrigerated Warehouse-No Rail	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Natural Gas Mitigated	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148,544.7	1,148,544.7	0.0220	0.0211	1,155,370.0
Natural Gas Unmitigated	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148,544.7	1,148,544.7	0.0220	0.0211	1,155,370.0

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day					CO2e
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	
Automobile Care Center	446.301	4.8100e-003	0.0438	0.0368	2.6000e-004	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	52.5060	52.5060	52.5060	1.0100e-003	9.6000e-004	52.8181
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	396.712	4.2800e-003	0.0389	0.0327	2.3000e-004	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	46.6720	46.6720	46.6720	8.9000e-004	8.6000e-004	46.9494
General Light Industry	5752.33	0.0620	0.5640	0.4737	3.3800e-003	0.0429	0.0429	0.0429	0.0429	0.0429	0.0429	676.7446	676.7446	676.7446	0.0130	0.0124	680.7661
General Office Building	1967.92	0.0212	0.1929	0.1621	1.1600e-003	0.0147	0.0147	0.0147	0.0147	0.0147	0.0147	231.5197	231.5197	231.5197	4.4400e-003	4.2400e-003	232.8956
General Office Building	85.5616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	10.0661	10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	942.192	0.0102	0.0924	0.0776	5.5000e-004	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	110.8461	110.8461	110.8461	2.1200e-003	2.0300e-003	111.5048
Unrefrigerated Warehouse-No Rail	171.616	1.8500e-003	0.0168	0.0141	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	20.1902	20.1902	20.1902	3.9000e-004	3.7000e-004	20.3102
Total		0.1053	0.9571	0.8040	5.7300e-003	0.0728	0.0728	0.0728	0.0728	0.0728	0.0728	1,148,544	1,148,544	1,148,544	0.0220	0.0211	1,155,370

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day				
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O
Automobile Care Center	0.446301	4.8100e-003	0.0438	0.0368	2.6000e-004	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	52.5060	52.5060	52.5060	1.0100e-003	9.6000e-004	52.8181
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0.396712	4.2800e-003	0.0389	0.0327	2.3000e-004	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	46.6720	46.6720	46.6720	8.9000e-004	8.6000e-004	46.9494
General Light Industry	5.75233	0.0620	0.5640	0.4737	3.3800e-003	0.0429	0.0429	0.0429	0.0429	0.0429	676.7446	676.7446	676.7446	0.0130	0.0124	680.7661
General Office Building	0.0855616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	10.0661	10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
General Office Building	1.96792	0.0212	0.1929	0.1621	1.1600e-003	0.0147	0.0147	0.0147	0.0147	0.0147	231.5197	231.5197	231.5197	4.4400e-003	4.2400e-003	232.8956
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	0.942192	0.0102	0.0924	0.0776	5.5000e-004	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	110.8461	110.8461	110.8461	2.1200e-003	2.0300e-003	111.5048
Unrefrigerated Warehouse-No Rail	0.171616	1.8500e-003	0.0168	0.0141	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	20.1902	20.1902	20.1902	3.9000e-004	3.7000e-004	20.3102
Total		0.1053	0.9571	0.8040	5.7300e-003	0.0728	0.0728	0.0728	0.0728	0.0728	1,148.5447	1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700

6.0 Area Detail

6.1 Mitigation Measures Area

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Mitigated	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Unmitigated	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.7829				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0057				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	6.6100e-003	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Total	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	0.7829				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0057				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	6.6700e-003	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643
Total	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	10	4.00	260	89	0.20	Diesel

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Summer

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Forklifts	0.4366	4.1132	5.6971	7.6800e-003	0.2202	0.2202	0.2202	0.2026	0.2026	0.2026	743.8549	743.8549	743.8549	0.2406		749.8694
Total	0.4366	4.1132	5.6971	7.6800e-003	0.2202	0.2202	0.2202	0.2026	0.2026	0.2026	743.8549	743.8549	743.8549	0.2406		749.8694

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

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Mid Valley Water Facility Unmitigated HRA
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	69.00	1000sqft	1.58	69,000.00	0
General Office Building	3.00	1000sqft	0.07	3,000.00	0
Research & Development	19.00	1000sqft	0.44	19,000.00	0
General Light Industry	116.00	1000sqft	2.66	116,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Unrefrigerated Warehouse-No Rail	72.00	1000sqft	1.65	72,000.00	0
Enclosed Parking Structure	216.00	1000sqft	4.96	216,000.00	0
Other Asphalt Surfaces	181.00	1000sqft	4.16	181,000.00	0
Other Asphalt Surfaces	12.00	1000sqft	0.28	12,000.00	0
Automobile Care Center	9.00	1000sqft	0.21	9,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2026

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	758.16	CH4 Intensity (lb/MW/hr)	0.018	N2O Intensity (lb/MW/hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Project Characteristics - Los Angeles Department of Water and Power adjusted for 43.2% RPS in 2026. HRA

Land Use -

Construction Phase - Data provided by applicant.

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant.

Grading - Data provided by applicant.

Vehicle Trips - Data provided by Traffic Report. HRA onsite vehicle travel assumed 0.19 miles (1,000 feet).

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Data provided by applicant.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	42.00

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

tblConstructionPhase	NumDays	300.00	238.00
tblConstructionPhase	NumDays	300.00	108.00
tblConstructionPhase	NumDays	300.00	22.00
tblConstructionPhase	NumDays	300.00	195.00
tblConstructionPhase	NumDays	300.00	238.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	30.00	130.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	10.00	21.00
tblGrading	AcresOfGrading	325.00	6.57
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	UsageHours	7.00	4.00
tbIOffRoadEquipment	UsageHours	7.00	4.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tbOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	10.00
tbIProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tbIProjectCharacteristics	CO2IntensityFactor	1227.89	758.16
tbIProjectCharacteristics	N2OIntensityFactor	0.006	0.004

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

tblTripsAndVMT	HaulingTripNumber	0.00	4,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	11,118.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	10.00
tblTripsAndVMT	VendorTripNumber	116.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	22.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	12.00
tblTripsAndVMT	VendorTripNumber	116.00	24.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	57.00	44.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	6.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	18.00
tblTripsAndVMT	WorkerTripNumber	286.00	48.00
tblTripsAndVMT	WorkerTripNumber	286.00	68.00

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

tblTripsAndVMT	WorkerTripNumber		
tblVehicleTrips	CC_TL	286.00	28.00
tblVehicleTrips	CNW_TL	8.40	0.19
tblVehicleTrips	CW_TL	6.90	0.19
tblVehicleTrips	ST_TR	16.60	0.19
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	1.32	2.22
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.68	1.14
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	6.97	11.72
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	8.11	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2020	5.2690	75.0704	37.4645	0.1286	18.2803	2.2724	20.4804	9.9877	2.0935	12.0119	0.0000	13,230.88 77	13,230.88 77	2.4034	0.0000	13,290.97 39
2021	11.5339	91.9555	91.5699	0.1719	8.0058	4.5103	10.0718	3.8367	4.2942	5.7401	0.0000	16,278.29 83	16,278.29 83	2.8772	0.0000	16,350.22 80
2022	72.1082	83.6727	89.9371	0.1711	2.4122	3.8405	6.2526	0.6493	3.6589	4.3082	0.0000	16,198.77 64	16,198.77 64	2.8293	0.0000	16,269.50 97
2023	3.1559	34.6030	27.8783	0.0773	2.8680	1.2885	4.1565	0.7266	1.2005	1.9271	0.0000	7,764.264 7	7,764.264 7	1.4886	0.0000	7,801.478 7
Maximum	72.1082	91.9555	91.5699	0.1719	18.2803	4.5103	20.4804	9.9877	4.2942	12.0119	0.0000	16,278.29 83	16,278.29 83	2.8772	0.0000	16,350.22 80

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

**2.2 Overall Operational
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643
Energy	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700
Mobile	1.0834	4.5740	4.7912	7.8100e-003	0.2026	9.3500e-003	0.2120	0.0542	8.6500e-003	0.0629		813.1263	813.1263	0.0870		815.3018
Offroad	0.4345	4.0927	5.6688	7.6400e-003		0.2191	0.2191		0.2016	0.2016		740.1542	740.1542	0.2394		746.1387
Total	8.4183	9.6245	11.3357	0.0212	0.2026	0.3015	0.5041	0.0542	0.2832	0.3374		2,701.9794	2,701.9794	0.3488	0.0211	2,716.9748

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

2.2 Overall Operational

Mitigated Operational

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	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	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643
Energy	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700
Mobile	1.0834	4.5740	4.7912	7.8100e-003	0.2026	9.3500e-003	0.2120	0.0542	8.6500e-003	0.0629		813.1263	813.1263	0.0870		815.3018
Offroad	0.4345	4.0927	5.6688	7.6400e-003		0.2191	0.2191	0.2016	0.2016	0.2016		740.1542	740.1542	0.2394		746.1387
Total	8.4183	9.6245	11.3357	0.0212	0.2026	0.3015	0.5041	0.0542	0.2832	0.3374		2,701.9794	2,701.9794	0.3488	0.0211	2,716.9748

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

3.0 Construction Detail

Construction Phase

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/1/2020	11/30/2020	5	21	
2	Grading	Grading	12/1/2020	5/31/2021	5	130	
3	Trenching & Underground Utilities	Trenching	7/1/2021	7/30/2021	5	22	
4	Perimeter Walls Construction	Building Construction	7/1/2021	7/30/2021	5	22	
5	Paving & Site Infrastructure	Paving	8/1/2021	8/21/2021	5	15	
6	Office Building & Staff Parking	Building Construction	9/1/2021	5/31/2022	5	195	
7	Water Distribution Shop and Maintenance Building	Building Construction	9/1/2021	7/30/2022	5	238	
8	Department Fleet Vehicles Parking	Building Construction	9/1/2021	8/31/2022	5	261	
9	Supply Chain Services Warehouse	Building Construction	9/1/2021	8/31/2022	5	261	
10	Fleet Maintenance Building and CNG Dispensing Area	Building Construction	9/1/2021	7/30/2022	5	238	
11	Street Improvement of Hazeltine Avenue	Building Construction	9/1/2022	1/30/2023	5	108	
12	Architectural Coating	Architectural Coating	9/1/2022	10/30/2022	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.57

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 444,000; Non-Residential Outdoor: 148,000; Striped Parking Area: 24,540 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Perimeter Walls Construction	Bore/Drill Rigs	1	8.00	221	0.50
Perimeter Walls Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Perimeter Walls Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Perimeter Walls Construction	Cranes	1	7.00	231	0.29
Perimeter Walls Construction	Forklifts	3	8.00	89	0.20
Perimeter Walls Construction	Generator Sets	1	8.00	84	0.74
Perimeter Walls Construction	Paving Equipment	1	8.00	132	0.36
Perimeter Walls Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Perimeter Walls Construction	Welders	1	8.00	46	0.45
Paving & Site Infrastructure	Pavers	2	8.00	130	0.42
Paving & Site Infrastructure	Paving Equipment	2	8.00	132	0.36
Paving & Site Infrastructure	Rollers	2	8.00	80	0.38
Street Improvement of Hazeltine Avenue	Cranes	1	7.00	231	0.29
Street Improvement of Hazeltine Avenue	Excavators	1	8.00	158	0.38
Street Improvement of Hazeltine Avenue	Forklifts	3	8.00	89	0.20
Street Improvement of Hazeltine Avenue	Generator Sets	1	8.00	84	0.74
Street Improvement of Hazeltine Avenue	Graders	1	8.00	187	0.41
Street Improvement of Hazeltine Avenue	Rubber Tired Dozers	1	8.00	247	0.40
Street Improvement of Hazeltine Avenue	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Street Improvement of Hazeltine Avenue	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Trenching & Underground Utilities	Plate Compactors	1	8.00	8	0.43
Trenching & Underground Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching & Underground Utilities	Trenchers	1	8.00	78	0.50
Office Building & Staff Parking	Cranes	1	4.00	231	0.29
Office Building & Staff Parking	Forklifts	2	6.00	89	0.20
Office Building & Staff Parking	Forklifts	2	7.00	89	0.20
Office Building & Staff Parking	Generator Sets	1	8.00	84	0.74
Office Building & Staff Parking	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Office Building & Staff Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Office Building & Staff Parking	Welders	3	8.00	46	0.45
Water Distribution Shop and Maintenance Building	Cranes	1	8.00	231	0.29
Water Distribution Shop and Maintenance Building	Forklifts	2	7.00	89	0.20
Water Distribution Shop and Maintenance Building	Generator Sets	1	8.00	84	0.74
Water Distribution Shop and Maintenance Building	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Water Distribution Shop and Maintenance Building	Welders	3	8.00	46	0.45
Department Fleet Vehicles Parking	Cranes	1	8.00	231	0.29
Department Fleet Vehicles Parking	Forklifts	2	7.00	89	0.20
Department Fleet Vehicles Parking	Generator Sets	1	8.00	84	0.74
Department Fleet Vehicles Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Department Fleet Vehicles Parking	Welders	3	8.00	46	0.45
Supply Chain Services Warehouse	Cranes	1	6.00	231	0.29
Supply Chain Services Warehouse	Forklifts	1	6.00	89	0.20
Supply Chain Services Warehouse	Generator Sets	1	8.00	84	0.74
Supply Chain Services Warehouse	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Supply Chain Services Warehouse	Welders	3	8.00	46	0.45
Fleet Maintenance Building and CNG Dispensing Area	Cranes	1	4.00	231	0.29

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Fleet Maintenance Building and CNG Dispensing Area	Forklifts	2	6.00	89	0.20
Fleet Maintenance Building and CNG Dispensing Area	Generator Sets	1	8.00	84	0.74
Fleet Maintenance Building and CNG Dispensing Area	Pavers	1	6.00	130	0.42
Fleet Maintenance Building and CNG Dispensing Area	Paving Equipment	1	8.00	132	0.36
Fleet Maintenance Building and CNG Dispensing Area	Rollers	1	7.00	80	0.38
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Welders	1	8.00	46	0.45

Trips and VMT

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	2.00	11,118.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Site Infrastructure	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvement of Hazeltine Avenue	12	16.00	2.00	4,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching & Underground Utilities	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Office Building & Staff Parking	12	18.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Water Distribution System and Maintenance	8	48.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Department Fleet Vehicles Parking	8	68.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Supply Chain Services Warehouse	7	28.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fleet Maintenance Building and CNG Dis	11	16.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.2 Site Preparation - 2020
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380	2.1974	2.1974	2.1974	2.0216	2.0216	2.0216		3.685.101 6	3.685.101 6	1.1918		3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.101 6	3,685.101 6	1.1918		3,714.897 5

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	0.0994	0.2779	0.7833	2.5000e-003	0.2140	2.7000e-003	0.2167	0.0571	2.5200e-003	0.0596		253.2255	253.2255	9.8800e-003		253.4726

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.2 Site Preparation - 2020
Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380	2.1974	2.1974	2.1974	2.0216	2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.0458	2.1974	9.2433	3.8730	2.0216	5.8946	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003			53.8898	3.6000e-003		53.9799
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			199.3357	6.2800e-003		199.4927
Total	0.0994	0.2779	0.7833	2.5000e-003	0.2140	2.7000e-003	0.2167	0.0571	2.5200e-003	0.0596			253.2255	9.8800e-003		253.4726

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.3 Grading - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					6.0757	0.0000	6.0757	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	4.4146	49.8900	30.9702	0.0599	2.1902	2.1902	2.1902	2.0149	2.0149	2.0149		5,806.5154	5,806.5154	1.8779		5,853.4640
Total	4.4146	49.8900	30.9702	0.0599	6.0757	2.1902	8.2658	3.3160	2.0149	5.3310		5,806.5154	5,806.5154	1.8779		5,853.4640

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7652	24.9097	5.7912	0.0664	6.7556	0.0797	6.8353	1.7011	0.0762	1.7773		7,193.2953	7,193.2953	0.5163		7,206.2031
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0818	0.0580	0.6416	1.7800e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		177.1873	177.1873	5.5800e-003		177.3269
Total	0.8544	25.1804	6.4943	0.0687	6.9472	0.0822	7.0294	1.7522	0.0786	1.8308		7,424.3723	7,424.3723	0.5255		7,437.5099

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.3 Grading - 2020

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					2.3695	0.0000	2.3695	1.2933	0.0000	1.2933			0.0000			0.0000
Off-Road	4.4146	49.8900	30.9702	0.0599	2.1902	2.1902	2.1902	2.0149	2.0149	2.0149	0.0000	5,806.5154	5,806.5154	1.8779		5,853.4640
Total	4.4146	49.8900	30.9702	0.0599	2.3695	2.1902	4.5597	1.2933	2.0149	3.3082	0.0000	5,806.5154	5,806.5154	1.8779		5,853.4640

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.7652	24.9097	5.7912	0.0664	6.7556	0.0797	6.8353	1.7011	0.0762	1.7773			7,193.2953	0.5163		7,206.2031
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003			53.8898	3.6000e-003		53.9799
Worker	0.0818	0.0580	0.6416	1.7800e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488			177.1873	5.5800e-003		177.3269
Total	0.8544	25.1804	6.4943	0.0687	6.9472	0.0822	7.0294	1.7522	0.0786	1.8308	7,424.3723	7,424.3723	0.5255			7,437.5099

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.3 Grading - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					6.0757	0.0000	6.0757	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600	1.9927	1.9927	1.9927	1.8333	1.8333	1.8333		5,807.7515	5,807.7515	1.8783		5,854.7102
Total	4.1493	46.1422	29.8669	0.0600	6.0757	1.9927	8.0684	3.3160	1.8333	5.1493		5,807.7515	5,807.7515	1.8783		5,854.7102

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7303	23.2220	5.7038	0.0656	1.7385	0.0715	1.8099	0.4696	0.0684	0.5380			7,113.6650	0.5086		7,126.3797
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003			53.4691	3.4500e-003		53.5554
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			171.5602	5.0500e-003		171.6864
Total	0.8129	23.4680	6.3492	0.0678	1.9301	0.0733	2.0034	0.5207	0.0701	0.5908		3	7,338.6943	0.5171		7,351.6215

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.3 Grading - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					2.3695	0.0000	2.3695	1.2933	0.0000	1.2933			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600	1.9927	1.9927	1.9927	1.8333	1.8333	1.8333	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102
Total	4.1493	46.1422	29.8669	0.0600	2.3695	1.9927	4.3622	1.2933	1.8333	3.1265	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7303	23.2220	5.7038	0.0656	1.7385	0.0715	1.8099	0.4696	0.0684	0.5380			7,113.6650	0.5086		7,126.3797
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003			53.4691	3.4500e-003		53.5554
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			171.5602	5.0500e-003		171.6864
Total	0.8129	23.4680	6.3492	0.0678	1.9301	0.0733	2.0034	0.5207	0.0701	0.5908		3	7,338.6943	0.5171		7,351.6215

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.4 Trenching & Underground Utilities - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500		963.2020	963.2020	0.3040		970.8007
Total	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500		963.2020	963.2020	0.3040		970.8007

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	0.0541	0.2264	0.4244	1.5800e-003	0.1246	1.3100e-003	0.1259	0.0333	1.2200e-003	0.0346		160.6942	160.6942	6.6100e-003		160.8594

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.4 Trenching & Underground Utilities - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500	0.0000	963.2020	963.2020	0.3040		970.8007
Total	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500	0.0000	963.2020	963.2020	0.3040		970.8007

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	0.0541	0.2264	0.4244	1.5800e-003	0.1246	1.3100e-003	0.1259	0.0333	1.2200e-003	0.0346		160.6942	160.6942	6.6100e-003		160.8594

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.5 Perimeter Walls Construction - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	4,503.0630	4,503.0630	4,503.0630	1.0782		4,530.0187
Total	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	4,503.0630	4,503.0630	4,503.0630	1.0782		4,530.0187

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0621	8.2000e-004	0.0629	0.0163	7.8000e-004	0.0171	106.9382	106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.1837	5.4000e-004	0.1842	0.0464	5.0000e-004	0.0469	64.3351	64.3351	64.3351	1.8900e-003		64.3824
Total	0.0414	0.4071	0.3333	1.6500e-003	0.2458	1.3600e-003	0.2471	0.0627	1.2800e-003	0.0640	171.2733	171.2733	171.2733	8.7900e-003		171.4932

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.5 Perimeter Walls Construction - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	0.0000	4,503.0630	4,503.0630	1.0782		4,530.0187
Total	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	0.0000	4,503.0630	4,503.0630	1.0782		4,530.0187

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0621	8.2000e-004	0.0629	0.0163	7.8000e-004	0.0171			106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.1837	5.4000e-004	0.1842	0.0464	5.0000e-004	0.0469			64.3351	1.8900e-003		64.3824
Total	0.0414	0.4071	0.3333	1.6500e-003	0.2458	1.3600e-003	0.2471	0.0627	1.2800e-003	0.0640			171.2733	8.7900e-003		171.4932

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.6 Paving & Site Infrastructure - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.2556	12.9191	14.6532	0.0228	0.6777	0.6777	0.6777	0.6235	0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7755				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000			0.0000
Total	2.0311	12.9191	14.6532	0.0228	0.6777	0.6777	0.6777	0.6235	0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.0891	0.4397	0.7015	2.7200e-003	0.2045	2.2700e-003	0.2067	0.0548	2.1100e-003	0.0569		278.4984	278.4984	0.0120		278.7972

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.6 Paving & Site Infrastructure - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7755					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000
Total	2.0311	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.0891	0.4397	0.7015	2.7200e-003	0.2045	2.2700e-003	0.2067	0.0548	2.1100e-003	0.0569		278.4984	278.4984	0.0120		278.7972

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.7 Office Building & Staff Parking - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137		2.833.4125	2.833.4125	0.6264		2.849.0729
Total	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137		2.833.4125	2.833.4125	0.6264		2.849.0729

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0383	1.1627	0.3369	3.0000e-003	0.0768	2.4600e-003	0.0793	0.0221	2.3500e-003	0.0245		320.8146	320.8146	0.0207		321.3324
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	0.1241	1.2214	0.9998	4.9400e-003	0.2780	4.0900e-003	0.2821	0.0755	3.8500e-003	0.0793		513.8198	513.8198	0.0264		514.4796

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.7 Office Building & Staff Parking - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137	0.0000	2.833.4125	2.833.4125	0.6264		2.849.0729
Total	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137	0.0000	2,833.4125	2,833.4125	0.6264		2,849.0729

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0383	1.1627	0.3369	3.0000e-003	0.0768	2.4600e-003	0.0793	0.0221	2.3500e-003	0.0245		320.8146	320.8146	0.0207		321.3324
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	0.1241	1.2214	0.9998	4.9400e-003	0.2780	4.0900e-003	0.2821	0.0755	3.8500e-003	0.0793		513.8198	513.8198	0.0264		514.4796

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.7 Office Building & Staff Parking - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	2,834.390 2	2,834.390 2	2,834.390 2	0.6180		2,849.839 4
Total	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	2,834.390 2	2,834.390 2	2,834.390 2	0.6180		2,849.839 4

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0360	1.1050	0.3189	2.9700e-003	0.0768	2.1500e-003	0.0790	0.0221	2.0600e-003	0.0242		317.9643	317.9643	0.0200		318.4639
Worker	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
Total	0.1166	1.1580	0.9294	4.8400e-003	0.2780	3.7200e-003	0.2818	0.0755	3.5100e-003	0.0790		504.1868	504.1868	0.0251		504.8146

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.7 Office Building & Staff Parking - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	0.0000	2,834.390 2	2,834.390 2	0.6180		2,849.839 4
Total	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	0.0000	2,834.390 2	2,834.390 2	0.6180		2,849.839 4

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0360	1.1050	0.3189	2.9700e-003	0.0768	2.1500e-003	0.0790	0.0221	2.0600e-003	0.0242		317.9643	317.9643	0.0200		318.4639
Worker	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
Total	0.1166	1.1580	0.9294	4.8400e-003	0.2780	3.7200e-003	0.2818	0.0755	3.5100e-003	0.0790		504.1868	504.1868	0.0251		504.8146

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.8 Water Distribution Shop and Maintenance Building - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	2,288.9355	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	2,288.9355	2,288.9355	2,288.9355	0.4503		2,300.1935

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0766	2.3253	0.6739	6.0100e-003	0.1537	4.9200e-003	0.1586	0.0442	4.7000e-003	0.0489		641.6293	641.6293	0.0414		642.6648
Worker	0.2289	0.1566	1.7676	5.1700e-003	0.5365	4.3400e-003	0.5409	0.1423	3.9900e-003	0.1463		514.6805	514.6805	0.0152		515.0592
Total	0.3055	2.4819	2.4415	0.0112	0.6902	9.2600e-003	0.6994	0.1865	8.6900e-003	0.1952		1,156.3098	1,156.3098	0.0566		1,157.7240

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.8 Water Distribution Shop and Maintenance Building - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0766	2.3253	0.6739	6.0100e-003	0.1537	4.9200e-003	0.1586	0.0442	4.7000e-003	0.0489		641.6293	641.6293	0.0414		642.6648
Worker	0.2289	0.1566	1.7676	5.1700e-003	0.5365	4.3400e-003	0.5409	0.1423	3.9900e-003	0.1463		514.6805	514.6805	0.0152		515.0592
Total	0.3055	2.4819	2.4415	0.0112	0.6902	9.2600e-003	0.6994	0.1865	8.6900e-003	0.1952		1,156.3098	1,156.3098	0.0566		1,157.7240

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.8 Water Distribution Shop and Maintenance Building - 2022

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281 ₃	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281₃	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0719	2.2099	0.6379	5.9500e-003	0.1537	4.3000e-003	0.1580	0.0442	4.1100e-003	0.0484			635.9287	0.0400		636.9278
Worker	0.2150	0.1414	1.6281	4.9800e-003	0.5365	4.2000e-003	0.5407	0.1423	3.8700e-003	0.1462			496.5933	0.0137		496.9352
Total	0.2869	2.3513	2.2659	0.0109	0.6902	8.5000e-003	0.6987	0.1865	7.9800e-003	0.1945	1,132,522₀	1,132,522₀	1,132,522₀	0.0536		1,133,863₀

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.8 Water Distribution Shop and Maintenance Building - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0719	2.2099	0.6379	5.9500e-003	0.1537	4.3000e-003	0.1580	0.0442	4.1100e-003	0.0484		635.9287	635.9287	0.0400		636.9278
Worker	0.2150	0.1414	1.6281	4.9800e-003	0.5365	4.2000e-003	0.5407	0.1423	3.8700e-003	0.1462		496.5933	496.5933	0.0137		496.9352
Total	0.2869	2.3513	2.2659	0.0109	0.6902	8.5000e-003	0.6987	0.1865	7.9800e-003	0.1945		1,132,522₀	1,132,522₀	0.0536		1,133,863₀

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.9 Department Fleet Vehicles Parking - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173	0.7831	0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173	0.7831	0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.3242	0.2218	2.5041	7.3200e-003	0.7601	6.1400e-003	0.7662	0.2016	5.6600e-003	0.2072		729.1307	729.1307	0.0215		729.6671
Total	0.3370	0.6093	2.6165	8.3200e-003	0.7857	6.9600e-003	0.7927	0.2090	6.4400e-003	0.2154		836.0690	836.0690	0.0284		836.7779

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.9 Department Fleet Vehicles Parking - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003			106.9382	6.9000e-003		107.1108
Worker	0.3242	0.2218	2.5041	7.3200e-003	0.7601	6.1400e-003	0.7662	0.2016	5.6600e-003	0.2072			729.1307	0.0215		729.6671
Total	0.3370	0.6093	2.6165	8.3200e-003	0.7857	6.9600e-003	0.7927	0.2090	6.4400e-003	0.2154			836.0690	0.0284		836.7779

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.9 Department Fleet Vehicles Parking - 2022

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281 ₃	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281₃	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0120	0.3683	0.1063	9.9000e-004	0.0256	7.2000e-004	0.0263	7.3700e-003	6.9000e-004	8.0600e-003			105.9881	6.6600e-003		106.1546
Worker	0.3045	0.2003	2.3064	7.0600e-003	0.7601	5.9500e-003	0.7660	0.2016	5.4800e-003	0.2071			703.5072	0.0194		703.9915
Total	0.3165	0.5686	2.4127	8.0500e-003	0.7857	6.6700e-003	0.7924	0.2090	6.1700e-003	0.2151	809,4953	809,4953	809,4953	0.0260		810,1461

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.9 Department Fleet Vehicles Parking - 2022

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281 ₃	2,289,281 ₃	0.4417			2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281₃	2,289,281₃	0.4417			2,300,323₀

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.0120	0.3683	0.1063	9.9000e-004	0.0256	7.2000e-004	0.0263	7.3700e-003	6.9000e-004	8.0600e-003	105.9881	105.9881	105.9881	6.6600e-003			106.1546
Worker	0.3045	0.2003	2.3064	7.0600e-003	0.7601	5.9500e-003	0.7660	0.2016	5.4800e-003	0.2071	703.5072	703.5072	703.5072	0.0194			703.9915
Total	0.3165	0.5686	2.4127	8.0500e-003	0.7857	6.6700e-003	0.7924	0.2090	6.1700e-003	0.2151	809,4953	809,4953	809,4953	0.0260			810,1461

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.10 Supply Chain Services Warehouse - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843	0.6608	0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843	0.6608	0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0511	1.5502	0.4492	4.0000e-003	0.1024	3.2800e-003	0.1057	0.0295	3.1400e-003	0.0326		427.7528	427.7528	0.0276		428.4432
Worker	0.1335	0.0913	1.0311	3.0100e-003	0.3130	2.5300e-003	0.3155	0.0830	2.3300e-003	0.0853		300.2303	300.2303	8.8300e-003		300.4512
Total	0.1846	1.6415	1.4804	7.0100e-003	0.4154	5.8100e-003	0.4212	0.1125	5.4700e-003	0.1180		727.9832	727.9832	0.0364		728.8944

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.10 Supply Chain Services Warehouse - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0511	1.5502	0.4492	4.0000e-003	0.1024	3.2800e-003	0.1057	0.0295	3.1400e-003	0.0326			427.7528	0.0276		428.4432
Worker	0.1335	0.0913	1.0311	3.0100e-003	0.3130	2.5300e-003	0.3155	0.0830	2.3300e-003	0.0853			300.2303	8.8300e-003		300.4512
Total	0.1846	1.6415	1.4804	7.0100e-003	0.4154	5.8100e-003	0.4212	0.1125	5.4700e-003	0.1180			727.9832	0.0364		728.8944

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.10 Supply Chain Services Warehouse - 2022

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889	0.5689	0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889	0.5689	0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0479	1.4733	0.4252	3.9600e-003	0.1024	2.8700e-003	0.1053	0.0295	2.7400e-003	0.0322		423.9525	423.9525	0.0266		424.6186
Worker	0.1254	0.0825	0.9497	2.9100e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		289.6795	289.6795	7.9800e-003		289.8789
Total	0.1733	1.5557	1.3749	6.8700e-003	0.4154	5.3200e-003	0.4207	0.1125	5.0000e-003	0.1175		713.6319	713.6319	0.0346		714.4974

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.10 Supply Chain Services Warehouse - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0479	1.4733	0.4252	3.9600e-003	0.1024	2.8700e-003	0.1053	0.0295	2.7400e-003	0.0322		423.9525	423.9525	0.0266		424.6186
Worker	0.1254	0.0825	0.9497	2.9100e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		289.6795	289.6795	7.9800e-003		289.8789
Total	0.1733	1.5557	1.3749	6.8700e-003	0.4154	5.3200e-003	0.4207	0.1125	5.0000e-003	0.1175		713.6319	713.6319	0.0346		714.4974

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940		1.0258	1.0258		3,192.707 3	3,192.707 3	0.8228		3,213.277 0
Total	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940		1.0258	1.0258		3,192.707 3	3,192.707 3	0.8228		3,213.277 0

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0319	0.9689	0.2808	2.5000e-003	0.0640	2.0500e-003	0.0661	0.0184	1.9600e-003	0.0204		267.3455	267.3455	0.0173		267.7770
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.1082	1.0211	0.8700	4.2200e-003	0.2429	3.5000e-003	0.2464	0.0659	3.2900e-003	0.0692		438.9057	438.9057	0.0223		439.4634

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940	1.0258	1.0258	1.0258	0.0000	3,192.707 3	3,192.707 3	0.8228		3,213.277 0
Total	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940	1.0258	1.0258	1.0258	0.0000	3,192.707 3	3,192.707 3	0.8228		3,213.277 0

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0319	0.9689	0.2808	2.5000e-003	0.0640	2.0500e-003	0.0661	0.0184	1.9600e-003	0.0204		267.3455	267.3455	0.0173		267.7770
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.1082	1.0211	0.8700	4.2200e-003	0.2429	3.5000e-003	0.2464	0.0659	3.2900e-003	0.0692		438.9057	438.9057	0.0223		439.4634

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2022

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627		3,193.943 3	3,193.943 3	0.8188		3,214.413 4
Total	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627		3,193.943 3	3,193.943 3	0.8188		3,214.413 4

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0300	0.9208	0.2658	2.4800e-003	0.0640	1.7900e-003	0.0658	0.0184	1.7100e-003	0.0202		264.9703	264.9703	0.0167		265.3866
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	0.1016	0.9679	0.8085	4.1400e-003	0.2429	3.1900e-003	0.2461	0.0659	3.0000e-003	0.0689		430.5014	430.5014	0.0212		431.0317

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.11 Fleet Maintenance Building and CNG Dispensing Area - 2022

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627	0.0000	3,193.943 2	3,193.943 2	0.8188		3,214.413 4
Total	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627	0.0000	3,193.943 2	3,193.943 2	0.8188		3,214.413 4

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0300	0.9208	0.2658	2.4800e-003	0.0640	1.7900e-003	0.0658	0.0184	1.7100e-003	0.0202		264.9703	264.9703	0.0167		265.3866
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	0.1016	0.9679	0.8085	4.1400e-003	0.2429	3.1900e-003	0.2461	0.0659	3.0000e-003	0.0689		430.5014	430.5014	0.0212		431.0317

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.12 Street Improvement of Hazeltine Avenue - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091		4,635.6278	4,635.6278	1.2851		4,667.7547
Total	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091		4,635.6278	4,635.6278	1.2851		4,667.7547

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.3010	9.3345	2.4399	0.0280	0.7658	0.0269	0.7927	0.2065	0.0257	0.2323		3,043.7657	3,043.7657	0.2167		3,049.1834
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	0.3786	9.5658	3.0357	0.0302	0.9575	0.0287	0.9861	0.2577	0.0274	0.2850		3,262.2909	3,262.2909	0.2246		3,267.9058

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.12 Street Improvement of Hazeltine Avenue - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091	0.0000	4,635.6278	4,635.6278	1.2851		4,667.7547
Total	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091	0.0000	4,635.6278	4,635.6278	1.2851		4,667.7547

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.3010	9.3345	2.4399	0.0280	0.7658	0.0269	0.7927	0.2065	0.0257	0.2323		3,043.7657	3,043.7657	0.2167		3,049.1834
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	0.3786	9.5658	3.0357	0.0302	0.9575	0.0287	0.9861	0.2577	0.0274	0.2850		3,262.2909	3,262.2909	0.2246		3,267.9058

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.12 Street Improvement of Hazeltine Avenue - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883		4,636.2626	4,636.2626	1.2809		4,668.2851
Total	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883		4,636.2626	4,636.2626	1.2809		4,668.2851

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.1976	6.1313	2.1948	0.0268	2.6763	0.0113	2.6876	0.6755	0.0109	0.6863		2,917.1786	2,917.1786	0.2006		2,922.1942
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779
Total	0.2696	6.3134	2.7408	0.0289	2.8680	0.0129	2.8808	0.7266	0.0123	0.7389		3,128.0021	3,128.0021	0.2077		3,133.1936

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.12 Street Improvement of Hazeltine Avenue - 2023

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883	0.0000	4,636.2626	4,636.2626	1.2809		4,668.2851
Total	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883	0.0000	4,636.2626	4,636.2626	1.2809		4,668.2851

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.1976	6.1313	2.1948	0.0268	2.6763	0.0113	2.6876	0.6755	0.0109	0.6863		2,917.1786	2,917.1786	0.2006		2,922.1942
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779
Total	0.2696	6.3134	2.7408	0.0289	2.8680	0.0129	2.8808	0.7266	0.0123	0.7389		3,128.0021	3,128.0021	0.2077		3,133.1936

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.13 Architectural Coating - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	68.0396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	68.2441	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0659	2.0257	0.5847	5.4500e-003	0.1409	3.9400e-003	0.1448	0.0406	3.7700e-003	0.0443		582.9346	582.9346	0.0366		583.8505
Worker	0.1971	0.1296	1.4924	4.5700e-003	0.4918	3.8500e-003	0.4957	0.1304	3.5500e-003	0.1340		455.2106	455.2106	0.0125		455.5239
Total	0.2630	2.1553	2.0771	0.0100	0.6327	7.7900e-003	0.6405	0.1710	7.3200e-003	0.1783		1,038.145	1,038.145	0.0492		1,039.374

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

3.13 Architectural Coating - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	68.0396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	68.2441	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0659	2.0257	0.5847	5.4500e-003	0.1409	3.9400e-003	0.1448	0.0406	3.7700e-003	0.0443		582.9346	582.9346	0.0366		583.8505
Worker	0.1971	0.1296	1.4924	4.5700e-003	0.4918	3.8500e-003	0.4957	0.1304	3.5500e-003	0.1340		455.2106	455.2106	0.0125		455.5239
Total	0.2630	2.1553	2.0771	0.0100	0.6327	7.7900e-003	0.6405	0.1710	7.3200e-003	0.1783		1,038.145	1,038.145	0.0492		1,039.374

4.0 Operational Detail - Mobile

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

4.1 Mitigation Measures Mobile

Category	lb/day															
	ROG	NOx	CO	SO2	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	1.0834	4.5740	4.7912	7.8100e-003	0.2026	9.3500e-003	0.2120	0.0542	8.6500e-003	0.0629		813.1263	813.1263	0.0870		815.3018
Unmitigated	1.0834	4.5740	4.7912	7.8100e-003	0.2026	9.3500e-003	0.2120	0.0542	8.6500e-003	0.0629		813.1263	813.1263	0.0870		815.3018

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Automobile Care Center	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Light Industry	1,359.52	257.52	132.24	67,339	67,339
General Light Industry	93.76	17.76	9.12	4,644	4,644
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Research & Development	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	1,453.28	275.28	141.36	71,983	71,983

4.3 Trip Type Information

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	0.19	0.19	0.19	59.00	28.00	13.00	92	5	3
General Light Industry	0.19	0.19	0.19	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Enclosed Parking Structure	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Office Building	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Other Asphalt Surfaces	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Research & Development	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Unrefrigerated Warehouse-No Rail	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Natural Gas Mitigated	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148,544.7	1,148,544.7	0.0220	0.0211	1,155.3700
Natural Gas Unmitigated	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148,544.7	1,148,544.7	0.0220	0.0211	1,155.3700

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
Automobile Care Center	446.301	4.8100e-003	0.0438	0.0368	2.6000e-004	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	52.5060	52.5060	52.5060	1.0100e-003	9.6000e-004	52.8181
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	396.712	4.2800e-003	0.0389	0.0327	2.3000e-004	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	46.6720	46.6720	46.6720	8.9000e-004	8.6000e-004	46.9494
General Light Industry	5752.33	0.0620	0.5640	0.4737	3.3800e-003	0.0429	0.0429	0.0429	0.0429	0.0429	0.0429	676.7446	676.7446	676.7446	0.0130	0.0124	680.7661
General Office Building	1967.92	0.0212	0.1929	0.1621	1.1600e-003	0.0147	0.0147	0.0147	0.0147	0.0147	0.0147	231.5197	231.5197	231.5197	4.4400e-003	4.2400e-003	232.8956
General Office Building	85.5616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	10.0661	10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	942.192	0.0102	0.0924	0.0776	5.5000e-004	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	110.8461	110.8461	110.8461	2.1200e-003	2.0300e-003	111.5048
Unrefrigerated Warehouse-No Rail	171.616	1.8500e-003	0.0168	0.0141	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	20.1902	20.1902	20.1902	3.9000e-004	3.7000e-004	20.3102
Total		0.1053	0.9571	0.8040	5.7300e-003	0.0728	0.0728	0.0728	0.0728	0.0728	0.0728	1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700	

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	lb/day											CO2e			
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2		NBio-CO2	Total CO2	CH4
Automobile Care Center	0.446301	4.8100e-003	0.0438	0.0368	2.6000e-004	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	0.0000	0.0000	52.5060	52.5060	1.0100e-003	9.6000e-004	52.8181
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0.396712	4.2800e-003	0.0389	0.0327	2.3000e-004	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	46.6720	46.6720	8.9000e-004	8.6000e-004	46.9494
General Light Industry	5.75233	0.0620	0.5640	0.4737	3.3800e-003	0.0429	0.0429	0.0429	0.0429	0.0429	0.0429	676.7446	676.7446	0.0130	0.0124	680.7661
General Office Building	0.0855616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
General Office Building	1.96792	0.0212	0.1929	0.1621	1.1600e-003	0.0147	0.0147	0.0147	0.0147	0.0147	0.0147	231.5197	231.5197	4.4400e-003	4.2400e-003	232.8956
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	0.942192	0.0102	0.0924	0.0776	5.5000e-004	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	110.8461	110.8461	2.1200e-003	2.0300e-003	111.5048
Unrefrigerated Warehouse-No Rail	0.171616	1.8500e-003	0.0168	0.0141	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	20.1902	20.1902	3.9000e-004	3.7000e-004	20.3102
Total		0.1053	0.9571	0.8040	5.7300e-003	0.0728	0.0728	0.0728	0.0728	0.0728	0.0728	1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700

6.0 Area Detail

6.1 Mitigation Measures Area

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Mitigated	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Unmitigated	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.7829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.6100e-003	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Total	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	0.7829				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0057				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	6.6700e-003	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643
Total	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	10	4.00	260	89	0.20	Diesel

Mid Valley Water Facility Unmitigated HRA - Los Angeles-South Coast County, Winter

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Forklifts	0.4345	4.0927	5.6688	7.6400e-003	0.2191	0.2191	0.2191	0.2016	0.2016	0.2016	740.1542	740.1542	740.1542	0.2394		746.1387
Total	0.4345	4.0927	5.6688	7.6400e-003	0.2191	0.2191	0.2191	0.2016	0.2016	0.2016	740.1542	740.1542	740.1542	0.2394		746.1387

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

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Mid Valley Water Facility Unmitigated
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	69.00	1000sqft	1.58	69,000.00	0
General Office Building	3.00	1000sqft	0.07	3,000.00	0
Research & Development	19.00	1000sqft	0.44	19,000.00	0
General Light Industry	116.00	1000sqft	2.66	116,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Unrefrigerated Warehouse-No Rail	72.00	1000sqft	1.65	72,000.00	0
Enclosed Parking Structure	216.00	1000sqft	4.96	216,000.00	0
Other Asphalt Surfaces	181.00	1000sqft	4.16	181,000.00	0
Other Asphalt Surfaces	12.00	1000sqft	0.28	12,000.00	0
Automobile Care Center	9.00	1000sqft	0.21	9,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2026

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	758.16	CH4 Intensity (lb/MW/hr)	0.018	N2O Intensity (lb/MW/hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Project Characteristics - Los Angeles Department of Water and Power adjusted for 43.2% RPS in 2026

Land Use -

Construction Phase - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Data provided by applicant.

Grading - Data provided by applicant.

Trips and VMT - Data provided by applicant.

Vehicle Trips - Data provided by Traffic Report.

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Data provided by applicant.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	42.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

tblConstructionPhase	NumDays	300.00	22.00
tblConstructionPhase	NumDays	300.00	108.00
tblConstructionPhase	NumDays	30.00	130.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	300.00	195.00
tblConstructionPhase	NumDays	300.00	238.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	300.00	261.00
tblConstructionPhase	NumDays	300.00	238.00
tblGrading	AcresOfGrading	325.00	6.57
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Welders
tbIOffRoadEquipment	OffRoadEquipmentType	Generator Sets
tbIOffRoadEquipment	OffRoadEquipmentType	Cranes
tbIOffRoadEquipment	OffRoadEquipmentType	Cement and Mortar Mixers
tbIOffRoadEquipment	OffRoadEquipmentType	Paving Equipment
tbIOffRoadEquipment	OffRoadEquipmentType	Forklifts
tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Welders
tbIOffRoadEquipment	OffRoadEquipmentType	Generator Sets
tbIOffRoadEquipment	OffRoadEquipmentType	Cranes
tbIOffRoadEquipment	OffRoadEquipmentType	Forklifts
tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Welders
tbIOffRoadEquipment	OffRoadEquipmentType	Generator Sets
tbIOffRoadEquipment	OffRoadEquipmentType	Cranes
tbIOffRoadEquipment	OffRoadEquipmentType	Forklifts
tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Pavers
tbIOffRoadEquipment	OffRoadEquipmentType	Rollers
tbIOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbIOffRoadEquipment	OffRoadEquipmentType	Paving Equipment
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbIOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbIOffRoadEquipment	UsageHours	7.00	4.00
tbIOffRoadEquipment	UsageHours	8.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	8.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	8.00	7.00
tbIOffRoadEquipment	UsageHours	7.00	6.00
tbIOffRoadEquipment	UsageHours	7.00	6.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	10.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	1227.89	758.16
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	HaulingTripNumber	0.00	11,118.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,000.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	116.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	22.00
tblTripsAndVMT	VendorTripNumber	116.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	16.00
tblTripsAndVMT	VendorTripNumber	116.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	116.00	12.00
tblTripsAndVMT	VendorTripNumber	116.00	24.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	6.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	286.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	57.00	44.00
tblTripsAndVMT	WorkerTripNumber	286.00	68.00
tblTripsAndVMT	WorkerTripNumber	286.00	28.00
tblTripsAndVMT	WorkerTripNumber	286.00	16.00
tblTripsAndVMT	WorkerTripNumber	286.00	18.00
tblTripsAndVMT	WorkerTripNumber	286.00	48.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	1.32	2.22
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	0.68	1.14
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	6.97	11.72
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	8.11	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
2020	5.2690	75.0704	37.4645	0.1286	18.2803	2.2724	20.4804	9.9877	2.0935	12.0119	0.0000	13,230.88 77	13,230.88 77	2.4034	0.0000	13,290.97 39
2021	11.5339	91.9555	91.5699	0.1719	8.0058	4.5103	10.0718	3.8367	4.2942	5.7401	0.0000	16,278.29 83	16,278.29 83	2.8772	0.0000	16,350.22 80
2022	72.1082	83.6727	89.9371	0.1711	2.4122	3.8405	6.2526	0.6493	3.6589	4.3082	0.0000	16,198.77 64	16,198.77 64	2.8293	0.0000	16,269.50 97
2023	3.1559	34.6030	27.8783	0.0773	2.8680	1.2885	4.1565	0.7266	1.2005	1.9271	0.0000	7,764.264 7	7,764.264 7	1.4886	0.0000	7,801.478 7
Maximum	72.1082	91.9555	91.5699	0.1719	18.2803	4.5103	20.4804	9.9877	4.2942	12.0119	0.0000	16,278.29 83	16,278.29 83	2.8772	0.0000	16,350.22 80

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

**2.2 Overall Operational
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643
Energy	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700
Mobile	2.2686	10.7345	32.6091	0.1411	13.6808	0.1068	13.7876	3.6602	0.0992	3.7593		14,411.3704	14,411.3704	0.6488		14,427.5911
Offroad	0.4366	4.1132	5.6971	7.6800e-003	0.2202	0.2202	0.2202	0.2026	0.2026	0.2026		743.8549	743.8549	0.2406		749.8694
Total	9.6057	15.8054	39.1820	0.1546	13.6808	0.4000	14.0808	3.6602	0.3747	4.0349		16,303.9244	16,303.9244	0.9118	0.0211	16,332.9948

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

2.2 Overall Operational

Mitigated Operational

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	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	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643
Energy	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148.5447	1,148.5447	0.0220	0.0211	1,155.3700
Mobile	2.2686	10.7345	32.6091	0.1411	13.6808	0.1068	13.7876	3.6602	0.0992	3.7593		14,411.3704	14,411.3704	0.6488		14,427.5911
Offroad	0.4366	4.1132	5.6971	7.6800e-003	0.2202	0.2202	0.2202	0.2026	0.2026	0.2026		743.8549	743.8549	0.2406		749.8694
Total	9.6057	15.8054	39.1820	0.1546	13.6808	0.4000	14.0808	3.6602	0.3747	4.0349		16,303.9244	16,303.9244	0.9118	0.0211	16,332.9948

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

3.0 Construction Detail

Construction Phase

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/1/2020	11/30/2020	5	21	
2	Grading	Grading	12/1/2020	5/31/2021	5	130	
3	Perimeter Walls Construction	Building Construction	7/1/2021	7/30/2021	5	22	
4	Paving & Site Infrastructure	Paving	8/1/2021	8/21/2021	5	15	
5	Street Improvement of Hazeltine Avenue	Building Construction	9/1/2022	1/30/2023	5	108	
6	Architectural Coating	Architectural Coating	9/1/2022	10/30/2022	5	42	
7	Trenching & Underground Utilities	Trenching	7/1/2021	7/30/2021	5	22	
8	Office Building & Staff Parking	Building Construction	9/1/2021	5/31/2022	5	195	
9	Water Distribution Shop and Maintenance Building	Building Construction	9/1/2021	7/30/2022	5	238	
10	Department Fleet Vehicles Parking	Building Construction	9/1/2021	8/31/2022	5	261	
11	Supply Chain Services Warehouse	Building Construction	9/1/2021	8/31/2022	5	261	
12	Fleet Maintenance Building and CNG Dispensing Area	Building Construction	9/1/2021	7/30/2022	5	238	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.57

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 444,000; Non-Residential Outdoor: 148,000; Striped Parking Area: 24,540 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Office Building & Staff Parking	Cranes	1	4.00	231	0.29
Office Building & Staff Parking	Forklifts	2	6.00	89	0.20
Office Building & Staff Parking	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Office Building & Staff Parking	Forklifts	2	7.00	89	0.20
Office Building & Staff Parking	Generator Sets	1	8.00	84	0.74
Office Building & Staff Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Office Building & Staff Parking	Welders	3	8.00	46	0.45
Water Distribution Shop and Maintenance Building	Cranes	1	8.00	231	0.29
Water Distribution Shop and Maintenance Building	Forklifts	2	7.00	89	0.20
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Perimeter Walls Construction	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Perimeter Walls Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Street Improvement of Hazeltine Avenue	Excavators	1	8.00	158	0.38
Street Improvement of Hazeltine Avenue	Graders	1	8.00	187	0.41
Street Improvement of Hazeltine Avenue	Rubber Tired Dozers	1	8.00	247	0.40
Trenching & Underground Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching & Underground Utilities	Plate Compactors	1	8.00	8	0.43
Trenching & Underground Utilities	Trenchers	1	8.00	78	0.50
Water Distribution Shop and Maintenance Building	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Water Distribution Shop and Maintenance Building	Welders	3	8.00	46	0.45
Water Distribution Shop and Maintenance Building	Generator Sets	1	8.00	84	0.74
Department Fleet Vehicles Parking	Cranes	1	8.00	231	0.29
Department Fleet Vehicles Parking	Forklifts	2	7.00	89	0.20

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Department Fleet Vehicles Parking	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Department Fleet Vehicles Parking	Welders	3	8.00	46	0.45
Paving & Site Infrastructure	Pavers	2	8.00	130	0.42
Department Fleet Vehicles Parking	Generator Sets	1	8.00	84	0.74
Supply Chain Services Warehouse	Cranes	1	6.00	231	0.29
Architectural Coating	Air Compressors	1	6.00	78	0.48
Supply Chain Services Warehouse	Forklifts	1	6.00	89	0.20
Supply Chain Services Warehouse	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Supply Chain Services Warehouse	Welders	3	8.00	46	0.45
Street Improvement of Hazeltine Avenue	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Supply Chain Services Warehouse	Generator Sets	1	8.00	84	0.74
Perimeter Walls Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Perimeter Walls Construction	Paving Equipment	1	8.00	132	0.36
Fleet Maintenance Building and CNG Dispensing Area	Cranes	1	4.00	231	0.29
Fleet Maintenance Building and CNG Dispensing Area	Forklifts	2	6.00	89	0.20
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Pavers	1	6.00	130	0.42
Fleet Maintenance Building and CNG Dispensing Area	Rollers	1	7.00	80	0.38
Fleet Maintenance Building and CNG Dispensing Area	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Paving Equipment	1	8.00	132	0.36
Perimeter Walls Construction	Cranes	1	7.00	231	0.29
Street Improvement of Hazeltine Avenue	Cranes	1	7.00	231	0.29
Perimeter Walls Construction	Forklifts	3	8.00	89	0.20
Street Improvement of Hazeltine Avenue	Forklifts	3	8.00	89	0.20
Fleet Maintenance Building and CNG Dispensing Area	Generator Sets	1	8.00	84	0.74

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Perimeter Walls Construction	Generator Sets	1	8.00	84	0.74
Street Improvement of Hazeltine Avenue	Generator Sets	1	8.00	84	0.74
Paving & Site Infrastructure	Paving Equipment	2	8.00	132	0.36
Paving & Site Infrastructure	Rollers	2	8.00	80	0.38
Grading	Scrapers	2	8.00	367	0.48
Perimeter Walls Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Fleet Maintenance Building and CNG Dispensing Area	Welders	1	8.00	46	0.45
Perimeter Walls Construction	Welders	1	8.00	46	0.45
Street Improvement of Hazeltine Avenue	Welders	1	8.00	46	0.45

Trips and VMT

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	2.00	11,118.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Perimeter Walls Construction	13	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Site Infrastructure	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvement of Hazeltine Avenue	12	16.00	2.00	4,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Department Fleet Vehicles Parking	8	68.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Supply Chain Services Warehouse	7	28.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fleet Maintenance Building and CNG Dis	11	16.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching & Underground Utilities	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Office Building & Staff Parking	12	18.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Water Distribution and Maintenance	8	48.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.2 Site Preparation - 2020
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380	2.1974	2.1974	2.1974	2.0216	2.0216	2.0216	3,685.1016	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549	199.3357	199.3357	199.3357	6.2800e-003		199.4927
Total	0.0994	0.2779	0.7833	2.5000e-003	0.2140	2.7000e-003	0.2167	0.0571	2.5200e-003	0.0596		253.2255	253.2255	9.8800e-003		253.4726

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.2 Site Preparation - 2020

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380	2.1974	2.1974	2.1974	2.0216	2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.0458	2.1974	9.2433	3.8730	2.0216	5.8946	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003			53.8898	3.6000e-003		53.9799
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			199.3357	6.2800e-003		199.4927
Total	0.0994	0.2779	0.7833	2.5000e-003	0.2140	2.7000e-003	0.2167	0.0571	2.5200e-003	0.0596			253.2255	9.8800e-003		253.4726

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.3 Grading - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					6.0757	0.0000	6.0757	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	4.4146	49.8900	30.9702	0.0599	2.1902	2.1902	2.1902	2.0149	2.0149	2.0149		5,806.5154	5,806.5154	1.8779		5,853.4640
Total	4.4146	49.8900	30.9702	0.0599	6.0757	2.1902	8.2658	3.3160	2.0149	5.3310		5,806.5154	5,806.5154	1.8779		5,853.4640

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7652	24.9097	5.7912	0.0664	6.7556	0.0797	6.8353	1.7011	0.0762	1.7773		7,193.2953	7,193.2953	0.5163		7,206.2031
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0818	0.0580	0.6416	1.7800e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488		177.1873	177.1873	5.5800e-003		177.3269
Total	0.8544	25.1804	6.4943	0.0687	6.9472	0.0822	7.0294	1.7522	0.0786	1.8308		7,424.3723	7,424.3723	0.5255		7,437.5099

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.3 Grading - 2020

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					2.3695	0.0000	2.3695	1.2933	0.0000	1.2933			0.0000			0.0000
Off-Road	4.4146	49.8900	30.9702	0.0599	2.1902	2.1902	2.1902	2.0149	2.0149	2.0149	0.0000	5,806.5154	5,806.5154	1.8779		5,853.4640
Total	4.4146	49.8900	30.9702	0.0599	2.3695	2.1902	4.5597	1.2933	2.0149	3.3082	0.0000	5,806.5154	5,806.5154	1.8779		5,853.4640

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7652	24.9097	5.7912	0.0664	6.7556	0.0797	6.8353	1.7011	0.0762	1.7773			7,193.2953	0.5163		7,206.2031
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003			53.8898	3.6000e-003		53.9799
Worker	0.0818	0.0580	0.6416	1.7800e-003	0.1788	1.4900e-003	0.1803	0.0474	1.3800e-003	0.0488			177.1873	5.5800e-003		177.3269
Total	0.8544	25.1804	6.4943	0.0687	6.9472	0.0822	7.0294	1.7522	0.0786	1.8308	7,424.3723	7,424.3723	7,424.3723	0.5255		7,437.5099

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.3 Grading - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					6.0757	0.0000	6.0757	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600	1.9927	1.9927	1.9927	1.8333	1.8333	1.8333		5,807.7515	5,807.7515	1.8783		5,854.7102
Total	4.1493	46.1422	29.8669	0.0600	6.0757	1.9927	8.0684	3.3160	1.8333	5.1493		5,807.7515	5,807.7515	1.8783		5,854.7102

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7303	23.2220	5.7038	0.0656	1.7385	0.0715	1.8099	0.4696	0.0684	0.5380		7,113.6650	7,113.6650	0.5086		7,126.3797
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.8129	23.4680	6.3492	0.0678	1.9301	0.0733	2.0034	0.5207	0.0701	0.5908		7,338.6943	7,338.6943	0.5171		7,351.6215

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.3 Grading - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					2.3695	0.0000	2.3695	1.2933	0.0000	1.2933			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600	1.9927	1.9927	1.9927	1.8333	1.8333	1.8333	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102
Total	4.1493	46.1422	29.8669	0.0600	2.3695	1.9927	4.3622	1.2933	1.8333	3.1265	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7303	23.2220	5.7038	0.0656	1.7385	0.0715	1.8099	0.4696	0.0684	0.5380			7,113.6650	0.5086		7,126.3797
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003			53.4691	3.4500e-003		53.5554
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			171.5602	5.0500e-003		171.6864
Total	0.8129	23.4680	6.3492	0.0678	1.9301	0.0733	2.0034	0.5207	0.0701	0.5908		3	7,338.6943	0.5171		7,351.6215

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.4 Perimeter Walls Construction - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	4,503.0630	4,503.0630	4,503.0630	1.0782		4,530.0187
Total	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	4,503.0630	4,503.0630	4,503.0630	1.0782		4,530.0187

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0621	8.2000e-004	0.0629	0.0163	7.8000e-004	0.0171			106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.1837	5.4000e-004	0.1842	0.0464	5.0000e-004	0.0469			64.3351	1.8900e-003		64.3824
Total	0.0414	0.4071	0.3333	1.6500e-003	0.2458	1.3600e-003	0.2471	0.0627	1.2800e-003	0.0640			171.2733	8.7900e-003		171.4932

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.4 Perimeter Walls Construction - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	0.0000	4,503.0630	4,503.0630	1.0782		4,530.0187
Total	2.7947	25.8012	25.1730	0.0474	1.3335	1.3335	1.3335	1.2612	1.2612	1.2612	0.0000	4,503.0630	4,503.0630	1.0782		4,530.0187

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0621	8.2000e-004	0.0629	0.0163	7.8000e-004	0.0171			106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.1837	5.4000e-004	0.1842	0.0464	5.0000e-004	0.0469			64.3351	1.8900e-003		64.3824
Total	0.0414	0.4071	0.3333	1.6500e-003	0.2458	1.3600e-003	0.2471	0.0627	1.2800e-003	0.0640			171.2733	8.7900e-003		171.4932

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.5 Paving & Site Infrastructure - 2021
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7755					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0311	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.0891	0.4397	0.7015	2.7200e-003	0.2045	2.2700e-003	0.2067	0.0548	2.1100e-003	0.0569		278.4984	278.4984	0.0120		278.7972

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.5 Paving & Site Infrastructure - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777	0.6235	0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7755					0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000			0.0000
Total	2.0311	12.9191	14.6532	0.0228		0.6777	0.6777	0.6235	0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.0891	0.4397	0.7015	2.7200e-003	0.2045	2.2700e-003	0.2067	0.0548	2.1100e-003	0.0569		278.4984	278.4984	0.0120		278.7972

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.6 Street Improvement of Hazeltine Avenue - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133		1.4091	1.4091		4,635.6278	4,635.6278	1.2851		4,667.7547
Total	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133		1.4091	1.4091		4,635.6278	4,635.6278	1.2851		4,667.7547

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.3010	9.3345	2.4399	0.0280	0.7658	0.0269	0.7927	0.2065	0.0257	0.2323		3,043.7657	3,043.7657	0.2167		3,049.1834
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	0.3786	9.5658	3.0357	0.0302	0.9575	0.0287	0.9861	0.2577	0.0274	0.2850		3,262.2909	3,262.2909	0.2246		3,267.9058

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.6 Street Improvement of Hazeltine Avenue - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091	0.0000	4,635.6278	4,635.6278	1.2851		4,667.7547
Total	3.2225	32.0722	25.7615	0.0484		1.5133	1.5133	1.4091	1.4091	1.4091	0.0000	4,635.6278	4,635.6278	1.2851		4,667.7547

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.3010	9.3345	2.4399	0.0280	0.7658	0.0269	0.7927	0.2065	0.0257	0.2323		3,043.7657	3,043.7657	0.2167		3,049.1834
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	0.3786	9.5658	3.0357	0.0302	0.9575	0.0287	0.9861	0.2577	0.0274	0.2850		3,262.2909	3,262.2909	0.2246		3,267.9058

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.6 Street Improvement of Hazeltine Avenue - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883		4,636.2626	4,636.2626	1.2809		4,668.2851
Total	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883		4,636.2626	4,636.2626	1.2809		4,668.2851

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.1976	6.1313	2.1948	0.0268	2.6763	0.0113	2.6876	0.6755	0.0109	0.6863		2,917.1786	2,917.1786	0.2006		2,922.1942
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779
Total	0.2696	6.3134	2.7408	0.0289	2.8680	0.0129	2.8808	0.7266	0.0123	0.7389		3,128.0021	3,128.0021	0.2077		3,133.1936

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.6 Street Improvement of Hazeltine Avenue - 2023

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883	0.0000	4,636.2626	4,636.2626	1.2809		4,668.2851
Total	2.8863	28.2896	25.1375	0.0484		1.2756	1.2756	1.1883	1.1883	1.1883	0.0000	4,636.2626	4,636.2626	1.2809		4,668.2851

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.1976	6.1313	2.1948	0.0268	2.6763	0.0113	2.6876	0.6755	0.0109	0.6863		2,917.1786	2,917.1786	0.2006		2,922.1942
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0675	0.0426	0.4988	1.6000e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		159.4753	159.4753	4.1000e-003		159.5779
Total	0.2696	6.3134	2.7408	0.0289	2.8680	0.0129	2.8808	0.7266	0.0123	0.7389		3,128.0021	3,128.0021	0.2077		3,133.1936

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2022
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	68.0396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	68.2441	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0659	2.0257	0.5847	5.4500e-003	0.1409	3.9400e-003	0.1448	0.0406	3.7700e-003	0.0443		582.9346	582.9346	0.0366		583.8505
Worker	0.1971	0.1296	1.4924	4.5700e-003	0.4918	3.8500e-003	0.4957	0.1304	3.5500e-003	0.1340		455.2106	455.2106	0.0125		455.5239
Total	0.2630	2.1553	2.0771	0.0100	0.6327	7.7900e-003	0.6405	0.1710	7.3200e-003	0.1783		1,038.145	1,038.145	0.0492		1,039.374

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.7 Architectural Coating - 2022
Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	68.0396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	68.2441	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0659	2.0257	0.5847	5.4500e-003	0.1409	3.9400e-003	0.1448	0.0406	3.7700e-003	0.0443		582.9346	582.9346	0.0366		583.8505
Worker	0.1971	0.1296	1.4924	4.5700e-003	0.4918	3.8500e-003	0.4957	0.1304	3.5500e-003	0.1340		455.2106	455.2106	0.0125		455.5239
Total	0.2630	2.1553	2.0771	0.0100	0.6327	7.7900e-003	0.6405	0.1710	7.3200e-003	0.1783		1,038.145	1,038.145	0.0492		1,039.374

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.8 Trenching & Underground Utilities - 2021
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500		963.2020	963.2020	0.3040		970.8007
Total	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500		963.2020	963.2020	0.3040		970.8007

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	0.0541	0.2264	0.4244	1.5800e-003	0.1246	1.3100e-003	0.1259	0.0333	1.2200e-003	0.0346		160.6942	160.6942	6.6100e-003		160.8594

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.8 Trenching & Underground Utilities - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500	0.0000	963.2020	963.2020	0.3040		970.8007
Total	0.7971	7.5550	7.3373	0.0101		0.4883	0.4883		0.4500	0.4500	0.0000	963.2020	963.2020	0.3040		970.8007

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	0.0541	0.2264	0.4244	1.5800e-003	0.1246	1.3100e-003	0.1259	0.0333	1.2200e-003	0.0346		160.6942	160.6942	6.6100e-003		160.8594

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.9 Office Building & Staff Parking - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.4071	19.1632	19.8438	0.0306	1.0679	1.0679	1.0679	1.0137	1.0137	1.0137	2,833.4125	2,833.4125	2,833.4125	0.6264		2,849.0729
Total	2.4071	19.1632	19.8438	0.0306	1.0679	1.0679	1.0679	1.0137	1.0137	1.0137	2,833.4125	2,833.4125	2,833.4125	0.6264		2,849.0729

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0383	1.1627	0.3369	3.0000e-003	0.0768	2.4600e-003	0.0793	0.0221	2.3500e-003	0.0245			320.8146	0.0207		321.3324
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549			193.0052	5.6800e-003		193.1472
Total	0.1241	1.2214	0.9998	4.9400e-003	0.2780	4.0900e-003	0.2821	0.0755	3.8500e-003	0.0793			513.8198	0.0264		514.4796

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.9 Office Building & Staff Parking - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137	0.0000	2.833.4125	2.833.4125	0.6264		2.849.0729
Total	2.4071	19.1632	19.8438	0.0306		1.0679	1.0679	1.0137	1.0137	1.0137	0.0000	2,833.4125	2,833.4125	0.6264		2,849.0729

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0383	1.1627	0.3369	3.0000e-003	0.0768	2.4600e-003	0.0793	0.0221	2.3500e-003	0.0245		320.8146	320.8146	0.0207		321.3324
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	0.1241	1.2214	0.9998	4.9400e-003	0.2780	4.0900e-003	0.2821	0.0755	3.8500e-003	0.0793		513.8198	513.8198	0.0264		514.4796

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.9 Office Building & Staff Parking - 2022

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1688	17.4455	19.6136	0.0307		0.9004	0.9004		0.8554	0.8554		2,834.390 2	2,834.390 2	0.6180		2,849.839 4
Total	2.1688	17.4455	19.6136	0.0307		0.9004	0.9004		0.8554	0.8554		2,834.390 2	2,834.390 2	0.6180		2,849.839 4

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0360	1.1050	0.3189	2.9700e-003	0.0768	2.1500e-003	0.0790	0.0221	2.0600e-003	0.0242		317.9643	317.9643	0.0200		318.4639
Worker	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
Total	0.1166	1.1580	0.9294	4.8400e-003	0.2780	3.7200e-003	0.2818	0.0755	3.5100e-003	0.0790		504.1868	504.1868	0.0251		504.8146

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.9 Office Building & Staff Parking - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	0.0000	2,834.390 2	2,834.390 2	0.6180		2,849.839 4
Total	2.1688	17.4455	19.6136	0.0307	0.9004	0.9004	0.9004	0.8554	0.8554	0.8554	0.0000	2,834.390 2	2,834.390 2	0.6180		2,849.839 4

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0360	1.1050	0.3189	2.9700e-003	0.0768	2.1500e-003	0.0790	0.0221	2.0600e-003	0.0242		317.9643	317.9643	0.0200		318.4639
Worker	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
Total	0.1166	1.1580	0.9294	4.8400e-003	0.2780	3.7200e-003	0.2818	0.0755	3.5100e-003	0.0790		504.1868	504.1868	0.0251		504.8146

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.10 Water Distribution Shop and Maintenance Building - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0766	2.3253	0.6739	6.0100e-003	0.1537	4.9200e-003	0.1586	0.0442	4.7000e-003	0.0489		641.6293	641.6293	0.0414		642.6648
Worker	0.2289	0.1566	1.7676	5.1700e-003	0.5365	4.3400e-003	0.5409	0.1423	3.9900e-003	0.1463		514.6805	514.6805	0.0152		515.0592
Total	0.3055	2.4819	2.4415	0.0112	0.6902	9.2600e-003	0.6994	0.1865	8.6900e-003	0.1952		1,156.3098	1,156.3098	0.0566		1,157.7240

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.10 Water Distribution Shop and Maintenance Building - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250	0.8173	0.8173	0.8173	0.7831	0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0766	2.3253	0.6739	6.0100e-003	0.1537	4.9200e-003	0.1586	0.0442	4.7000e-003	0.0489		641.6293	641.6293	0.0414		642.6648
Worker	0.2289	0.1566	1.7676	5.1700e-003	0.5365	4.3400e-003	0.5409	0.1423	3.9900e-003	0.1463		514.6805	514.6805	0.0152		515.0592
Total	0.3055	2.4819	2.4415	0.0112	0.6902	9.2600e-003	0.6994	0.1865	8.6900e-003	0.1952		1,156.3098	1,156.3098	0.0566		1,157.7240

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.10 Water Distribution Shop and Maintenance Building - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281 ₃	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281₃	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0719	2.2099	0.6379	5.9500e-003	0.1537	4.3000e-003	0.1580	0.0442	4.1100e-003	0.0484		635.9287	635.9287	0.0400		636.9278
Worker	0.2150	0.1414	1.6281	4.9800e-003	0.5365	4.2000e-003	0.5407	0.1423	3.8700e-003	0.1462		496.5933	496.5933	0.0137		496.9352
Total	0.2869	2.3513	2.2659	0.0109	0.6902	8.5000e-003	0.6987	0.1865	7.9800e-003	0.1945	1,132,522₀	1,132,522₀	1,132,522₀	0.0536		1,133,863₀

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.10 Water Distribution Shop and Maintenance Building - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0719	2.2099	0.6379	5.9500e-003	0.1537	4.3000e-003	0.1580	0.0442	4.1100e-003	0.0484		635.9287	635.9287	0.0400		636.9278
Worker	0.2150	0.1414	1.6281	4.9800e-003	0.5365	4.2000e-003	0.5407	0.1423	3.8700e-003	0.1462		496.5933	496.5933	0.0137		496.9352
Total	0.2869	2.3513	2.2659	0.0109	0.6902	8.5000e-003	0.6987	0.1865	7.9800e-003	0.1945		1,132,522₀	1,132,522₀	0.0536		1,133,863₀

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.11 Department Fleet Vehicles Parking - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173	0.7831	0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173	0.7831	0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.3242	0.2218	2.5041	7.3200e-003	0.7601	6.1400e-003	0.7662	0.2016	5.6600e-003	0.2072		729.1307	729.1307	0.0215		729.6671
Total	0.3370	0.6093	2.6165	8.3200e-003	0.7857	6.9600e-003	0.7927	0.2090	6.4400e-003	0.2154		836.0690	836.0690	0.0284		836.7779

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.11 Department Fleet Vehicles Parking - 2021

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.3242	0.2218	2.5041	7.3200e-003	0.7601	6.1400e-003	0.7662	0.2016	5.6600e-003	0.2072		729.1307	729.1307	0.0215		729.6671
Total	0.3370	0.6093	2.6165	8.3200e-003	0.7857	6.9600e-003	0.7927	0.2090	6.4400e-003	0.2154		836.0690	836.0690	0.0284		836.7779

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.11 Department Fleet Vehicles Parking - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281 ₃	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	2,289,281₃	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0120	0.3683	0.1063	9.9000e-004	0.0256	7.2000e-004	0.0263	7.3700e-003	6.9000e-004	8.0600e-003			105.9881	6.6600e-003		106.1546
Worker	0.3045	0.2003	2.3064	7.0600e-003	0.7601	5.9500e-003	0.7660	0.2016	5.4800e-003	0.2071			703.5072	0.0194		703.9915
Total	0.3165	0.5686	2.4127	8.0500e-003	0.7857	6.6700e-003	0.7924	0.2090	6.1700e-003	0.2151			809,4953	0.0260		810,1461

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.11 Department Fleet Vehicles Parking - 2022

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281 ₃	2,289,281 ₃	0.4417		2,300,323 ₀
Total	1.8555	14.6040	14.3533	0.0250	0.7022	0.7022	0.7022	0.6731	0.6731	0.6731	0.0000	2,289,281₃	2,289,281₃	0.4417		2,300,323₀

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.3683	0.1063	9.9000e-004	0.0256	7.2000e-004	0.0263	7.3700e-003	6.9000e-004	8.0600e-003	105.9881	105.9881	105.9881	6.6600e-003		106.1546
Worker	0.3045	0.2003	2.3064	7.0600e-003	0.7601	5.9500e-003	0.7660	0.2016	5.4800e-003	0.2071	703.5072	703.5072	703.5072	0.0194		703.9915
Total	0.3165	0.5686	2.4127	8.0500e-003	0.7857	6.6700e-003	0.7924	0.2090	6.1700e-003	0.2151	809,4953	809,4953	809,4953	0.0260		810,1461

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.12 Supply Chain Services Warehouse - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843	0.6608	0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843	0.6608	0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0511	1.5502	0.4492	4.0000e-003	0.1024	3.2800e-003	0.1057	0.0295	3.1400e-003	0.0326		427.7528	427.7528	0.0276		428.4432
Worker	0.1335	0.0913	1.0311	3.0100e-003	0.3130	2.5300e-003	0.3155	0.0830	2.3300e-003	0.0853		300.2303	300.2303	8.8300e-003		300.4512
Total	0.1846	1.6415	1.4804	7.0100e-003	0.4154	5.8100e-003	0.4212	0.1125	5.4700e-003	0.1180		727.9832	727.9832	0.0364		728.8944

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.12 Supply Chain Services Warehouse - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843	0.6608	0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843	0.6608	0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0511	1.5502	0.4492	4.0000e-003	0.1024	3.2800e-003	0.1057	0.0295	3.1400e-003	0.0326		427.7528	427.7528	0.0276		428.4432
Worker	0.1335	0.0913	1.0311	3.0100e-003	0.3130	2.5300e-003	0.3155	0.0830	2.3300e-003	0.0853		300.2303	300.2303	8.8300e-003		300.4512
Total	0.1846	1.6415	1.4804	7.0100e-003	0.4154	5.8100e-003	0.4212	0.1125	5.4700e-003	0.1180		727.9832	727.9832	0.0364		728.8944

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.12 Supply Chain Services Warehouse - 2022

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0479	1.4733	0.4252	3.9600e-003	0.1024	2.8700e-003	0.1053	0.0295	2.7400e-003	0.0322		423.9525	423.9525	0.0266		424.6186
Worker	0.1254	0.0825	0.9497	2.9100e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		289.6795	289.6795	7.9800e-003		289.8789
Total	0.1733	1.5557	1.3749	6.8700e-003	0.4154	5.3200e-003	0.4207	0.1125	5.0000e-003	0.1175		713.6319	713.6319	0.0346		714.4974

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.12 Supply Chain Services Warehouse - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0479	1.4733	0.4252	3.9600e-003	0.1024	2.8700e-003	0.1053	0.0295	2.7400e-003	0.0322		423.9525	423.9525	0.0266		424.6186
Worker	0.1254	0.0825	0.9497	2.9100e-003	0.3130	2.4500e-003	0.3154	0.0830	2.2600e-003	0.0853		289.6795	289.6795	7.9800e-003		289.8789
Total	0.1733	1.5557	1.3749	6.8700e-003	0.4154	5.3200e-003	0.4207	0.1125	5.0000e-003	0.1175		713.6319	713.6319	0.0346		714.4974

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2021

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940		1.0258	1.0258		3,192.707 3	3,192.707 3	0.8228		3,213.277 0
Total	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940		1.0258	1.0258		3,192.707 3	3,192.707 3	0.8228		3,213.277 0

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0319	0.9689	0.2808	2.5000e-003	0.0640	2.0500e-003	0.0661	0.0184	1.9600e-003	0.0204		267.3455	267.3455	0.0173		267.7770
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488		171.5602	171.5602	5.0500e-003		171.6864
Total	0.1082	1.0211	0.8700	4.2200e-003	0.2429	3.5000e-003	0.2464	0.0659	3.2900e-003	0.0692		438.9057	438.9057	0.0223		439.4634

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2021

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940	1.0258	1.0258	1.0258	0.0000	3,192.707 3	3,192.707 3	0.8228		3,213.277 0
Total	2.1649	20.1261	21.2928	0.0335		1.0940	1.0940	1.0258	1.0258	1.0258	0.0000	3,192.707 3	3,192.707 3	0.8228		3,213.277 0

Mitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0319	0.9689	0.2808	2.5000e-003	0.0640	2.0500e-003	0.0661	0.0184	1.9600e-003	0.0204			267.3455	0.0173		267.7770
Worker	0.0763	0.0522	0.5892	1.7200e-003	0.1788	1.4500e-003	0.1803	0.0474	1.3300e-003	0.0488			171.5602	5.0500e-003		171.6864
Total	0.1082	1.0211	0.8700	4.2200e-003	0.2429	3.5000e-003	0.2464	0.0659	3.2900e-003	0.0692			438.9057	0.0223		439.4634

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2022

Unmitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627		3,193.943 3	3,193.943 3	0.8188		3,214.413 4
Total	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627		3,193.943 3	3,193.943 3	0.8188		3,214.413 4

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0300	0.9208	0.2658	2.4800e-003	0.0640	1.7900e-003	0.0658	0.0184	1.7100e-003	0.0202		264.9703	264.9703	0.0167		265.3866
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	0.1016	0.9679	0.8085	4.1400e-003	0.2429	3.1900e-003	0.2461	0.0659	3.0000e-003	0.0689		430.5014	430.5014	0.0212		431.0317

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

3.13 Fleet Maintenance Building and CNG Dispensing Area - 2022

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627	0.0000	3,193.943 2	3,193.943 2	0.8188		3,214.413 4
Total	1.9366	17.9145	21.0991	0.0335		0.9194	0.9194	0.8627	0.8627	0.8627	0.0000	3,193.943 2	3,193.943 2	0.8188		3,214.413 4

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0300	0.9208	0.2658	2.4800e-003	0.0640	1.7900e-003	0.0658	0.0184	1.7100e-003	0.0202		264.9703	264.9703	0.0167		265.3866
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	0.1016	0.9679	0.8085	4.1400e-003	0.2429	3.1900e-003	0.2461	0.0659	3.0000e-003	0.0689		430.5014	430.5014	0.0212		431.0317

4.0 Operational Detail - Mobile

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

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
	lb/day															
Mitigated	2.2686	10.7345	32.6091	0.1411	13.6808	0.1068	13.7876	3.6602	0.0992	3.7593	14,411.370	4	14,411.370	0.6488		14,427.591
Unmitigated	2.2686	10.7345	32.6091	0.1411	13.6808	0.1068	13.7876	3.6602	0.0992	3.7593	14,411.370	4	14,411.370	0.6488		14,427.591
	lb/day															

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00				
Enclosed Parking Structure	0.00	0.00	0.00				
General Light Industry	1,359.52	257.52	132.24	4,546,804	4,546,804		
General Light Industry	93.76	17.76	9.12	313,573	313,573		
General Office Building	0.00	0.00	0.00				
General Office Building	0.00	0.00	0.00				
Other Asphalt Surfaces	0.00	0.00	0.00				
Other Asphalt Surfaces	0.00	0.00	0.00				
Research & Development	0.00	0.00	0.00				
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00				
Total	1,453.28	275.28	141.36	4,860,376	4,860,376		4,860,376

4.3 Trip Type Information

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Enclosed Parking Structure	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Office Building	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Other Asphalt Surfaces	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Research & Development	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Unrefrigerated Warehouse-No Rail	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
NaturalGas Mitigated	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148,544.7	1,148,544.7	0.0220	0.0211	1,155.3700
NaturalGas Unmitigated	0.1053	0.9571	0.8040	5.7400e-003	0.0727	0.0727	0.0727	0.0727	0.0727	0.0727		1,148,544.7	1,148,544.7	0.0220	0.0211	1,155.3700

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Automobile Care Center	446.301	4.8100e-003	0.0438	0.0368	2.6000e-004	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	52.5060	52.5060	52.5060	1.0100e-003	9.6000e-004	52.8181
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	396.712	4.2800e-003	0.0389	0.0327	2.3000e-004	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	46.6720	46.6720	46.6720	8.9000e-004	8.6000e-004	46.9494
General Light Industry	5752.33	0.0620	0.5640	0.4737	3.3800e-003	0.0429	0.0429	0.0429	0.0429	0.0429	0.0429	676.7446	676.7446	676.7446	0.0130	0.0124	680.7661
General Office Building	1967.92	0.0212	0.1929	0.1621	1.1600e-003	0.0147	0.0147	0.0147	0.0147	0.0147	0.0147	231.5197	231.5197	231.5197	4.4400e-003	4.2400e-003	232.8956
General Office Building	85.5616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	10.0661	10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	942.192	0.0102	0.0924	0.0776	5.5000e-004	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	110.8461	110.8461	110.8461	2.1200e-003	2.0300e-003	111.5048
Unrefrigerated Warehouse-No Rail	171.616	1.8500e-003	0.0168	0.0141	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	20.1902	20.1902	20.1902	3.9000e-004	3.7000e-004	20.3102
Total		0.1053	0.9571	0.8040	5.7300e-003	0.0728	0.0728	0.0728	0.0728	0.0728	0.0728	1,148,544	1,148,544	1,148,544	0.0220	0.0211	1,155,370

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Mitigated

Land Use	Natural Gas Use kBTU/yr	lb/day										lb/day					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Automobile Care Center	0.446301	4.8100e-003	0.0438	0.0368	2.6000e-004	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	3.3300e-003	52.5060	52.5060	52.5060	1.0100e-003	9.6000e-004	52.8181
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0.396712	4.2800e-003	0.0389	0.0327	2.3000e-004	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	46.6720	46.6720	46.6720	8.9000e-004	8.6000e-004	46.9494
General Light Industry	5.75233	0.0620	0.5640	0.4737	3.3800e-003	0.0429	0.0429	0.0429	0.0429	0.0429	0.0429	676.7446	676.7446	676.7446	0.0130	0.0124	680.7661
General Office Building	0.0855616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	10.0661	10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
General Office Building	1.96792	0.0212	0.1929	0.1621	1.1600e-003	0.0147	0.0147	0.0147	0.0147	0.0147	0.0147	231.5197	231.5197	231.5197	4.4400e-003	4.2400e-003	232.8956
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	0.942192	0.0102	0.0924	0.0776	5.5000e-004	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	7.0200e-003	110.8461	110.8461	110.8461	2.1200e-003	2.0300e-003	111.5048
Unrefrigerated Warehouse-No Rail	0.171616	1.8500e-003	0.0168	0.0141	1.0000e-004	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	1.2800e-003	20.1902	20.1902	20.1902	3.9000e-004	3.7000e-004	20.3102
Total		0.1053	0.9571	0.8040	5.7300e-003	0.0728	0.0728	0.0728	0.0728	0.0728	0.0728	1,148,544	1,148,544	0.0220	0.0211	1,155,370	

6.0 Area Detail

6.1 Mitigation Measures Area

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Mitigated	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Unmitigated	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.7829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.6100e-003	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643
Total	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	0.7829				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0057				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	6.6700e-003	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004		0.1543	0.1543	4.0000e-004		0.1643
Total	6.7952	6.5000e-004	0.0718	1.0000e-005	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	2.6000e-004	0.1543	0.1543	0.1543	4.0000e-004		0.1643

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	10	4.00	260	89	0.20	Diesel

Mid Valley Water Facility Unmitigated - Los Angeles-South Coast County, Winter

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Forklifts	0.4366	4.1132	5.6971	7.6800e-003	0.2202	0.2202	0.2202	0.2026	0.2026	0.2026	743.8549	743.8549	743.8549	0.2406		749.8694
Total	0.4366	4.1132	5.6971	7.6800e-003	0.2202	0.2202	0.2202	0.2026	0.2026	0.2026	743.8549	743.8549	743.8549	0.2406		749.8694

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

2026

**Los Angeles Department of Water & Power
Effect of 43.2% RPS**

Based on 2007 Baseline Data

2007 Emission Factor ¹	1228.00 lb CO2/MWh
2007 Renewables ²	8%
Without RPS	1334.78 lb CO2/MWh
Future Renewables ³	43%
With 43.2% RPS	758.16 lb CO2/MWh

Reduction 38.3%

All renewable energy is assumed to be carbon neutral (i.e. no emissions from biogenic sources).

1. CalEEMod User's Guide, Appendix D, Table 1.2
2. LADWP. 2007 Power Content Label (Actual)
3. RPS at 43.2%

http://www.cpuc.ca.gov/RPS_Homepage/

CH4

2007 Emission Factor ¹	0.029
With 43.2% RPS	0.018

N2O

2007 Emission Factor ¹	0.00617
With 43.2% RPS	0.00381

Mid Valley Water Facility Emissions Summary - Unmitigated

Estimated Maximum Daily Construction Emissions – Unmitigated

Year	Pounds per Day					
	VOCs	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
2020	5.27	75.07	37.46	0.13	11.59	5.95
2021	11.53	91.96	92.01	0.17	6.92	4.94
2022	72.11	83.67	90.35	0.17	6.25	4.31
2023	3.16	34.60	27.83	0.08	4.16	1.93
Maximum	72.11	91.96	92.01	0.17	11.59	5.95
SCAQMD Threshold	75	100	550	150	150	55

Estimated Daily Maximum Operational Emissions (2026) – Unmitigated

Emissions Source	Pounds per Day					PM _{2.5}
	VOCs	NO _x	CO	SO _x	PM ₁₀	
<i>Maintenance Scenario</i>						
Area	6.80	0.00	0.07	0.00	0.00	0.00
Energy	0.11	0.96	0.80	0.01	0.07	0.07
Mobile	2.34	10.73	34.75	0.15	13.79	3.76
Forklifts	0.44	4.11	5.70	0.01	0.22	0.20
Spray Booth	7.84	—	—	—	1.6	1.6
Emergency Generators	0.60	5.44	3.31	0.01	0.19	0.19
Combined Total Emissions	18.12	21.24	44.64	0.17	15.87	5.82
SCAQMD Pollutant Threshold	55	55	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No
<i>Testing Scenario</i>						
Area	6.80	0.00	0.07	0.00	0.00	0.00
Energy	0.11	0.96	0.80	0.01	0.07	0.07
Mobile	2.34	10.73	34.75	0.15	13.79	3.76
Forklifts	0.44	4.11	5.70	0.01	0.22	0.20
Spray Booth	7.84	—	—	—	1.6	1.6
Emergency Generators	102.00	922.00	560.00	1.00	32.20	32.00
Combined Total Emissions	119.52	937.80	601.33	1.16	47.88	37.63
SCAQMD Pollutant Threshold	55	55	550	150	150	55
Threshold Exceeded?	Yes	Yes	Yes	No	No	No

Year	Metric Tons			
	CO ₂	CH ₄	N ₂ O	CO ₂ e
2020	176.39	0.04	0.00	177.30
2021	1,368.81	0.25	0.00	1,375.04
2022	1,440.35	0.25	0.00	1,446.58
2023	74.28	0.01	0.00	74.63
Total	1,440.35	0.25	0.00	1,446.58
30-Year Amortized Emissions				
				48.22

Emissions Source	Metric Tons			
	CO ₂	CH ₄	N ₂ O	CO ₂ e
Area	0.02	0.00	0.00	0.02
Energy	1,609.76	0.04	0.01	1,613.96
Mobile	1,820.80	0.08	0.00	1,822.81
Forklifts	87.73	0.03	0.00	88.44
Solid waste	65.81	3.89	0.00	163.05
Water supply and wastewater	359.51	2.23	0.05	431.55
Emergency generator maintenance and testing	-	-	-	98.00
Operation Total Emissions				4,217.83
<i>Amortized Construction Emissions</i>				
				48.22
Operation + amortized construction Emissions				
				4,266.05

Back-calculated emissions for mitigation measure MM-AQ-1

Emissions Source	Pounds per Day					
	VOCs	NO _x	CO	SO _x	PM _{2.5}	
<i>Testing Scenario</i>						
Area	6.80	0.00	0.07	0.00	0.00	
Energy	0.11	0.96	0.80	0.01	0.07	
Mobile	2.34	10.73	34.75	0.15	3.76	
Forklifts	0.44	4.11	5.70	0.01	0.20	
Spray Booth	7.84	—	—	—	1.60	
Combined Total Emissions (minus Emergency Generators)	17.52	15.80	41.33	0.16	5.63	
SCAQMD Pollutant Threshold	55	55	550	150	55	
Emergency Generator Allowed Emissions	37.48	39.20	508.67	149.84	49.37	
<i>Testing Scenario</i>						
Testing Emissions (lb/day)	VOCs	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
Gen 1	22.80	205.10	124.70	0.20	7.20	7.10
Gen 3	34.20	307.60	187.00	0.40	10.80	10.70
Gen 4	26.40	237.60	144.50	0.30	8.30	8.30
Gen 5	19.10	171.50	104.30	0.20	6.00	6.00
Adjusted Gen 3 (lb/day)	4.28	38.45	23.38	0.05	1.35	1.34

Estimated Daily Maximum Operational Emissions (2026) – Mitigated

Emissions Source	Pounds per Day					
	VOCs	NO _x	CO	SO _x	PM _{2.5}	
<i>Testing Scenario</i>						
Area	6.80	0.00	0.07	0.00	0.00	
Energy	0.11	0.96	0.80	0.01	0.07	
Mobile	2.34	10.73	34.75	0.15	3.76	
Forklifts	0.44	4.11	5.70	0.01	0.20	
Spray Booth	7.84	—	—	—	1.6	
Emergency Generators	4.28	38.45	23.38	0.05	1.34	
Combined Total Emissions	21.79	54.25	64.70	0.21	17.03	6.97
SCAQMD Pollutant Threshold	55	55	550	150	55	
Threshold Exceeded?	No	No	No	No	No	No

Hourly limits (hr/day)	VOCs	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Gen 1	39.46	4.59	97.90	17,980.62	447.73	166.87
Gen 3	26.30	3.06	65.28	8,990.31	298.49	110.73
Gen 4	34.08	3.96	84.49	11,987.08	388.39	142.74
Gen 5	47.10	5.49	117.05	17,980.62	537.28	197.46

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: VND&Sherman
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT:

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 244.1 (M)
 BRG= WORST CASE VD= 0.0 CM/S
 CLAS= 7 (G) VS= 0.0 CM/S
 MIXH= 1000. M AMB= 3.0 PPM
 SIGTH= 10. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* * * * *	LINK COORDINATES (FT)	* * * * *	EF (G/MI)	H (FT)	W (FT)
	* * * * *	X1 Y1 X2 Y2	* * * * *			
A. WBRA	* * * * *	500 32 24 32	* * * * *	2.4	0.0	33.0
B. WBTA	* * * * *	500 20 0 20	* * * * *	2.4	0.0	33.0
C. WBLA	* * * * *	500 0 -24 0	* * * * *	2.4	0.0	33.0
D. WBD	* * * * *	500 -24 0 -24	* * * * *	2.4	0.0	33.0
E. EBLA	* * * * *	24 -12 -500 -12	* * * * *	2.4	0.0	33.0
F. EBTA	* * * * *	0 -24 -500 -24	* * * * *	2.4	0.0	33.0
G. EBRA	* * * * *	-24 -42 -500 -42	* * * * *	2.4	0.0	33.0
H. EBD	* * * * *	0 24 -500 24	* * * * *	2.4	0.0	33.0
I. NBLA	* * * * *	0 0 0 -500	* * * * *	2.4	0.0	33.0
J. NBTA	* * * * *	12 0 12 -500	* * * * *	2.4	0.0	33.0
K. NBRA	* * * * *	24 -24 24 -500	* * * * *	2.4	0.0	33.0
L. NBD	* * * * *	-24 0 -24 -500	* * * * *	2.4	0.0	33.0
M. SBLA	* * * * *	-12 500 -12 0	* * * * *	2.4	0.0	33.0
N. SBTA	* * * * *	-24 500 -24 0	* * * * *	2.4	0.0	33.0
O. SBRA	* * * * *	-40 24 -40 500	* * * * *	2.4	0.0	33.0
P. SBD	* * * * *	20 500 20 0	* * * * *	2.4	0.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	* * * * *	COORDINATES (FT)
	* * * * *	X Y Z
1. S1	* * * * *	25 55 5.9

VNB&Sherman.dat

2. S2 * -25 55 5.9
 3. S3 * -25 -45 5.9
 4. S4 * 30 -45 5.9

↑

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: VND&Sherman
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT:

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * BRG * (DEG)	* * PRED * CONC * (PPM)	CONC/LINK (PPM)									
			* * A	* * B	* * C	* * D	* * E	* * F	* * G	* * H		
1. S1	* 187.	* 3.7	* 0.0	* 0.1	* 0.0	* 0.1	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0
2. S2	* 174.	* 3.7	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0	* 0.1
3. S3	* 4.	* 3.7	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0	* 0.1	* 0.0	* 0.0	* 0.1
4. S4	* 351.	* 3.7	* 0.0	* 0.1	* 0.0	* 0.1	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0	* 0.0

RECEPTOR	CONC/LINK (PPM)								
	* * I	* * J	* * K	* * L	* * M	* * N	* * O	* * P	
1. S1	* 0.0	* 0.2	* 0.0	* 0.1	* 0.0	* 0.0	* 0.0	* 0.2	
2. S2	* 0.0	* 0.1	* 0.0	* 0.2	* 0.1	* 0.1	* 0.0	* 0.0	
3. S3	* 0.0	* 0.0	* 0.0	* 0.1	* 0.1	* 0.2	* 0.0	* 0.1	
4. S4	* 0.0	* 0.1	* 0.0	* 0.0	* 0.0	* 0.1	* 0.0	* 0.2	

↑

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Woodman&Sherman
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT:

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 244.1 (M)
 BRG= WORST CASE VD= 0.0 CM/S
 CLAS= 7 (G) VS= 0.0 CM/S
 MIXH= 1000. M AMB= 3.0 PPM
 SIGTH= 10. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* * * * *	LINK COORDINATES (FT)	* * * * *	EF (G/MI)	H (FT)	W (FT)
	* * * * *	X1 Y1 X2 Y2	* * * * *			
A. WBRA	* * * * *	500 32 24 32	* * * * *	2.4	0.0	33.0
B. WBTA	* * * * *	500 20 0 20	* * * * *	2.4	0.0	33.0
C. WBLA	* * * * *	500 0 -24 0	* * * * *	2.4	0.0	33.0
D. WBD	* * * * *	500 -24 0 -24	* * * * *	2.4	0.0	33.0
E. EBLA	* * * * *	24 -12 -500 -12	* * * * *	2.4	0.0	33.0
F. EBTA	* * * * *	0 -24 -500 -24	* * * * *	2.4	0.0	33.0
G. EBRA	* * * * *	-24 -42 -500 -42	* * * * *	2.4	0.0	33.0
H. EBD	* * * * *	0 24 -500 24	* * * * *	2.4	0.0	33.0
I. NBLA	* * * * *	0 0 0 -500	* * * * *	2.4	0.0	33.0
J. NBTA	* * * * *	12 0 12 -500	* * * * *	2.4	0.0	33.0
K. NBRA	* * * * *	24 -24 24 -500	* * * * *	2.4	0.0	33.0
L. NBD	* * * * *	-24 0 -24 -500	* * * * *	2.4	0.0	33.0
M. SBLA	* * * * *	-12 500 -12 0	* * * * *	2.4	0.0	33.0
N. SBTA	* * * * *	-24 500 -24 0	* * * * *	2.4	0.0	33.0
O. SBRA	* * * * *	-40 24 -40 500	* * * * *	2.4	0.0	33.0
P. SBD	* * * * *	20 500 20 0	* * * * *	2.4	0.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	* * * * *	COORDINATES (FT)
	* * * * *	X Y Z
1. S1	* * * * *	25 55 5.9

Woodman&Sherman.dat

2. S2 * -25 55 5.9
3. S3 * -25 -45 5.9
4. S4 * 30 -45 5.9

↑

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: Woodman&Sherman
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT:

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * * *	BRG (DEG)	* * * * *	PRED CONC (PPM)	CONC/LINK (PPM)								
					A	B	C	D	E	F	G	H	
1. S1	*	188.	*	3.8	* 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. S2	*	175.	*	3.7	* 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. S3	*	3.	*	3.6	* 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. S4	*	352.	*	3.6	* 0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0

RECEPTOR	* * * * *	CONC/LINK (PPM)									
		I	J	K	L	M	N	O	P		
1. S1	*	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.3		
2. S2	*	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.0		
3. S3	*	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.1		
4. S4	*	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.3		

↑

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Woodman&Valerio
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT:

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 244.1 (M)
 BRG= WORST CASE VD= 0.0 CM/S
 CLAS= 7 (G) VS= 0.0 CM/S
 MIXH= 1000. M AMB= 3.0 PPM
 SIGTH= 10. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* * * * *	LINK COORDINATES (FT)	* * * * *	EF (G/MI)	H (FT)	W (FT)
		X1 Y1 X2 Y2				
A. WBRA	*	500 32 24 32	*	2.4	0.0	33.0
B. WBTA	*	500 20 0 20	*	2.4	0.0	33.0
C. WBLA	*	500 0 -24 0	*	2.4	0.0	33.0
D. WBD	*	500 -24 0 -24	*	2.4	0.0	33.0
E. EBLA	*	24 -12 -500 -12	*	2.4	0.0	33.0
F. EBTA	*	0 -24 -500 -24	*	2.4	0.0	33.0
G. EBRA	*	-24 -42 -500 -42	*	2.4	0.0	33.0
H. EBD	*	0 24 -500 24	*	2.4	0.0	33.0
I. NBLA	*	0 0 0 -500	*	2.4	0.0	33.0
J. NBTA	*	12 0 12 -500	*	2.4	0.0	33.0
K. NBRA	*	24 -24 24 -500	*	2.4	0.0	33.0
L. NBD	*	-24 0 -24 -500	*	2.4	0.0	33.0
M. SBLA	*	-12 500 -12 0	*	2.4	0.0	33.0
N. SBTA	*	-24 500 -24 0	*	2.4	0.0	33.0
O. SBRA	*	-40 24 -40 500	*	2.4	0.0	33.0
P. SBD	*	20 500 20 0	*	2.4	0.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	* * * * *	COORDINATES (FT)
		X Y Z
1. S1	*	25 55 5.9

Woodman&Valerio.dat

2. S2 * -25 55 5.9
3. S3 * -25 -45 5.9
4. S4 * 30 -45 5.9

↑

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: Woodman&Valerio
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT:

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG * (DEG)	* PRED * * CONC * (PPM)	* A	B	C	CONC/LINK (PPM)						H
			D	E	F	G						
1. S1	* 189.	* 3.6 *	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. S2	* 178.	* 3.7 *	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. S3	* 1.	* 3.7 *	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. S4	* 348.	* 3.5 *	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

RECEPTOR	CONC/LINK (PPM)									
	I	J	K	L	M	N	O	P		
1. S1	* 0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.2		
2. S2	* 0.0	0.1	0.0	0.3	0.0	0.3	0.0	0.0		
3. S3	* 0.0	0.0	0.0	0.2	0.0	0.3	0.1	0.1		
4. S4	* 0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.2		

↑

**LADWP Mid-Valley
Water Facility
Health Risk Assessment
For Dudek**

May 2019

Prepared by:



Office Locations:
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Ventura, Fresno, Oakland, Bakersfield

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**LADWP
Mid-Valley Water Facility
Health Risk Assessment**

LADWP Mid-Valley Water Facility Health Risk Assessment

Prepared for:

**Dudek
31878 Camino Capistrano, 2nd Floor
San Juan Capistrano, CA 92675**

May 2019

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Appendices

APPENDIX A – EMISSION CALCULATIONS

APPENDIX B – AERMOD INPUT PARAMETERS

APPENDIX C – HARP2 OUTPUT REPORTS

List of Acronyms and Abbreviations

AB 2588	Assembly Bill 2588, Air Toxics “Hot Spots” Information and Assessment Act
ADMRT	Air Dispersion & Risk Tool
AERMOD	American Meteorological Society, Environmental Protection Agency Regulatory Model
ATCM	Airborne Toxic Control Measure
BHP-hr	Brake Horsepower Hour
CARB	California Air Resources Board
CAS No.	Chemical Abstracts Service Number
CCE	Capture & Control Efficiency
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CNG	Compressed Natural Gas
DPM	Diesel Particulate Matter
Ds	Stack Diameter
EPA	[United States] Environmental Protection Agency
g	Gram
GEN	Generator
GLC	Ground Level Concentration
HARP2	Hotspots Analysis and Reporting Program, Version 2
HI	Hazard Index
HIA	Acute Hazard Index
HIC	Chronic Hazard Index
hr	Hour
HRA	Health Risk Assessment
Hs	Stack Height
HVLP	High Volume, Low Pressure
°K	Degrees Kelvin
l	Liter
LADWP	Los Angeles Department of Water and Power
lb(s)	Pound(s)
LST	Localized Significance Threshold
m	Meter
MET	Meteorological
MICR	Maximum Individual Cancer Risk
MND	Mitigated Negative Declaration
NED	National Elevation Dataset
OEHHA	Office of Environmental Health Hazard Assessment
PH	Plume Height
PM	Particulate Matter
PM ₁₀	Respirable Particulate Matter [Less Than 10 Microns in Size]

PW	Plume Width
RH	Release Height
s	Second
SCAQMD	South Coast Air Quality Management District
SDS	Safety Data Sheet
TAC	Toxic Air Contaminant
TEMP	Temperature
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compounds
WAF	Worker Adjustment Factor
WGS84	World Geodetic System 1984
yr	Year
z11	Zone 11

LADWP Mid-Valley Water Facility Health Risk Assessment

1.0 INTRODUCTION

The Los Angeles Department of Water and Power (LADWP) is proposing to install new emissions sources at its Mid-Valley Water Facility. This Health Risk Assessment (HRA) has been prepared by Yorke Engineering, LLC (Yorke) in support of the Draft Mitigated Negative Declaration (MND) prepared by Dudek for this Project. An HRA is needed in order to assess the potential for health risks due to emissions of toxic air contaminants (TACs) from the paint booth and new emergency generators that will be installed as part of this proposed Project. In addition, emissions from diesel forklifts and truck traffic are included in this analysis. This report addresses the emissions of TACs only, and other air quality-related issues are discussed elsewhere in the Draft MND.

1.1 Project Description

The LADWP Mid-Valley Water Facility involves the construction and operation of the following LADWP facilities and activities in addition to the current sources at this site:

- Meter Shop;
- Site Improvements Yards and Access
- Supply Chain Services;
- Fleet Parking and Services;
- Employee Parking; and
- Office and Amenities.

A total of 168,700 gross square feet of new buildings, 95,000 square feet of non-structured and structured parking would be constructed on a 17.3-acre parcel.

The Mid-Valley Water Facility development is planned to include the following:

- One (1) paint spray booth in the southern portion of the site within the meter shop;
- A compressed natural gas (CNG) fueling station that will be located in the southeastern portion of the site, with a dispenser located to the east of the internal roadway; and
- Four (4) emergency generators that will be located in four different locations, specifically between the office/amenities and meter shop, near the fleet operations, north of supply chain services and near the welding gases near the meter shop;
- Diesel forklifts and diesel truck traffic associated with the project.

Although listed above, the TAC emissions from the CNG fueling station are presumed to be negligible, and hence this source of TAC emissions was not included in the HRA.

1.2 Project Location

The LADWP Mid-Valley Water Facility is proposed to be located at 7600 North Tyrone Avenue in Van Nuys, California. Figure 1-1 shows the facility and its immediate surroundings. The site is located in a generally industrial area. A railroad track runs along the northern boundary of the site. There are schools and other sensitive receptors within a half mile of the site.

With respect to air quality regulation, this facility is located within the South Coast Air Quality Management District (SCAQMD). Therefore, calculations and analyses were performed consistent with SCAQMD requirements.

Figure 1-1: Map of Facility and Immediate Surroundings



2.0 EMISSION ESTIMATES

Emission calculations were performed for two categories of stationary sources at the facility: one paint spray booth and four emergency generators powered by diesel engines. In addition, the contribution from diesel truck traffic and forklifts were estimated by Dudek with CalEEMod. As noted in Section 1.1, although there is a CNG fueling station associated with the project, this source is expected to have negligible TAC emissions and hence was not analyzed as part of the HRA. Detailed emission estimation calculations are provided in Appendix A.

2.1 Spray Booth

Material mass balance calculations were performed for two types of SCAQMD Rule 1151(d)(1) compliant coatings to be used in the booth: “Amershield” (223 grams per liter [g/l] volatile organic compounds [VOC] as applied) and “Amerlock” (90 g/l VOC as applied). Per Rule definitions, the VOC contents are expressed as less water and less exempt compounds. Both coatings are under the 250 g/l limit in Rule 1151 for “Any Other Coating Type”.

Both coatings are two-part chemistry where Part A is the resin and Part B is the hardener (catalyst) combined in a 3:1 ratio. LADWP has estimated that the spray booth would operate four days per week and use six gallons per day, therefore, annual usage would be as follows:

$$1 \text{ booth} \times 6 \text{ gallons/day} \times 4 \text{ days/week} \times 50 \text{ weeks/year} = 1,200 \text{ gallons/year total usage}$$

For risk assessment purposes, equal amounts of the two coatings were assumed, i.e., 600 gallons per year each comprising 450 gallons resin plus 150 gallons hardener. Safety Data Sheets (SDS) were reviewed for each material and the amount of listed TACs in VOC and corresponding emission factors for each component were determined as follows:

$$\text{weight fraction TAC} \times \text{specific gravity} \times 8.34 \text{ lbs/gallon} = \text{lbs/gallon TAC}$$

Annual and hourly mass emissions of each TAC shown in Table 2-1 were calculated as follows:

$$\text{lbs/gallon TAC} \times \text{gallons/year sprayed} = \text{lbs/year TAC emitted}$$

$$\text{lbs/gallon TAC} \times \text{gallons/hour sprayed} = \text{lbs/hour TAC emitted}$$

Since the booth will be used for applying Rule 1151(d)(1) compliant coatings, VOC controls are not required by the SCAQMD; thus, TACs in the VOC emissions are uncontrolled.

For paint solids, particulate emissions are controlled by 1) HVLP (high-volume low-pressure) spray guns with a minimum transfer efficiency of 65 percent, and 2) high-efficiency particulate filters in the booth exhaust air pathway with a minimum control efficiency of 90 percent. Since the booth is totally enclosed, capture efficiency is 100 percent. Thus, combined capture and control efficiency (CCE) is 96.5 percent:

$$CCE = [1 - (1 - 0.65) \times (1 - 0.90)] = 0.965 \times 100 = 96.5 \text{ percent}$$

Note that none of the coating materials proposed for use in the spray booth contain air toxic particulates, such as may be found in paint pigments. Therefore, although emissions of particulate matter were quantified using the methodology shown above, these emissions were not included in the modeling or HRA analysis for the project (Table 2-1).

Table 2-1: TAC Emission Summary – Spray Booth

Source	CAS No.	Toxic Air Contaminant	Annual Emissions (lbs/yr)	Hourly Emissions (lbs/hr)
Spray Booth	1330207	Xylene	261.5	0.33
	100414	Ethylbenzene	70.8	0.09
	108656	2-methoxy-1-methylethyl acetate	53.3	0.07
	822060	Hexamethylene diisocyanate	1.4	0.002
	95636	1,2,4-trimethylbenzene	56.3	0.07
	108952	Phenol	8.8	0.01

2.2 Diesel Emergency Generators

Four Tier 2 diesel emergency generators would be permitted to operate up to 50 hours per year for maintenance and testing purposes under the statewide Air Toxics Control Measure (ATCM) regulation (17 CCR 93115). As Tier 2 engines (40 CFR 89.112, EPA-420-B-16-022), emissions of diesel particulate matter (DPM) are limited to 0.15 grams per brake horsepower-hour (g/BHP-hr).

For each model of emergency generator, the manufacturer’s performance data sheet was obtained to determine 1) rated engine horsepower, and 2) fuel consumption rates at 100, 75, 50, and 25 percent output loads. From these data, the percent of maximum fuel usage, i.e., input load factor, at maintenance load (i.e., 25 percent output) was calculated. Depending on engine size, these maintenance input load factors ranged between 27 and 29 percent of maximum fuel consumption. For each generator, DPM emissions were calculated as follows:

$$0.15 \text{ g/BHP-hr} \times \text{rated BHP} \times \text{load factor} \times 1 \text{ lb}/453.6 \text{ g} \times 50 \text{ hours/year} = \text{lbs/year DPM}$$

$$0.15 \text{ g/BHP-hr} \times \text{rated BHP} \times \text{load factor} \times 1 \text{ lb}/453.6 \text{ g} = \text{lbs/hr DPM}$$

For cancer and chronic hazard index risk assessment purposes, maintenance input load factors were used to predict the average annual DPM emission rates for 50 hours per year operation shown in Table 2-2. Also shown are maximum hourly emission rates at 100 percent load factor.

Table 2-2: TAC Emission Summary – Diesel Generators

Source	CAS No.	Toxic Air Contaminant	Annual Emissions (lbs/yr)	Hourly Emissions (lbs/hr)
Gen 1 - Supply Chain	9901	DPM	4.1	0.30
Gen 3 - Weld Shop	9901	DPM	6.5	0.45
Gen 4 - Meter Yard	9901	DPM	4.9	0.35
Gen 5 - Parking	9901	DPM	3.6	0.25

2.3 Diesel Forklifts and Truck Traffic

The primary TAC of concern emitted from the project vehicle operations is diesel particulate matter (DPM). Dudek estimated DPM emissions using CalEEMod. All respirable particulate matter (PM₁₀) emissions from the forklifts and onsite delivery truck exhaust were considered to be DPM for the HRA. The estimated emissions are shown in Table 2-3.

Table 2-3: TAC Emission Summary – Diesel Forklifts and Truck Traffic

Source	CAS No.	Toxic Air Contaminant	Annual Emissions (lbs/yr)	Hourly Emissions (lbs/hr)
Forklifts	9901	DPM	57.2	0.00918
Truck Traffic	9901	DPM	2.52	0.000378

3.0 MODELING AND RISK ASSESSMENT METHODOLOGIES

This section of the report discusses the methodology that was used to develop the air dispersion modeling and HRA.

3.1 Air Dispersion Modeling

Air dispersion models calculate the atmospheric transport and fate of pollutants from the emission source. The models calculate the concentration of selected pollutants at specific downwind ground-level points, such as residential or off-site workplace receptors. The transformation (fate) of an airborne pollutant, its movement with the prevailing winds (transport), its crosswind and vertical movement due to atmospheric turbulence (dispersion), and its removal due to dry and wet deposition are influenced by the pollutant's physical and chemical properties and by meteorological and environmental conditions. Factors such as distance from the source to the receptor, meteorological conditions, intervening land use and terrain, pollutant release characteristics, and background pollutant concentrations affect the predicted air concentration of an air pollutant. Air dispersion models take all of these factors into consideration when calculating downwind ground-level pollutant concentrations.

All geographical coordinates referenced in this section and appendices are in the Universal Transverse Mercator (UTM) coordinate system, with the WGS84 Datum, zone 11 (z11). AERMOD air dispersion modeling files used to create the dispersion characteristics used in the HRA are provided in Appendix B.

3.1.1 Model Selection

The air dispersion modeling methodology is based on generally accepted modeling practices of the SCAQMD (2018a). The air dispersion model used for this HRA was AERMOD Version 18081, with the Lakes Environmental Software implementation/user interface, AERMOD View™ Version 9.6.5. AERMOD was run with all sources emitting unit emissions (1 g/s) to obtain the X/Q values that are necessary for input into HARP2.

3.1.2 Modeling Options

Regulatory defaults, the “Urban” modeling option¹, and “Elevated” terrain were used for this analysis.

3.1.3 Meteorological Data

AERMOD-ready pre-processed meteorological (MET) data files were taken directly from the SCAQMD's website. Burbank was chosen as the MET station closest to and most representative of conditions at the facility. The MET data files contained data for the years 2012 through 2016.

3.1.4 Elevation Data

The AERMOD runs used the regulatory default elevated terrain option. Elevations for all receptors, buildings, and emissions sources were imported directly into AERMOD View™ using the WebGIS import feature from the 30-meter National Elevation Dataset (NED) files from the United States Geological Survey (USGS).

¹ The project is located in Los Angeles County. The population used for the analysis was 9,818,605 per <https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/modeling-guidance>.

3.1.5 Receptors

HRA results were obtained at various locations around the facility. These receptor locations were identified as 1) the facility boundary; 2) a grid network of receptors to establish the impact area and area where the maximum impact would occur; and 3) discrete receptors that were positioned at specific locations of concern.

A plot plan of the facility was overlaid on an aerial map to establish the facility boundary. The facility boundary encompasses the proposed water yard project and the existing power yard. Fenceline receptors were placed every 100 meters apart.

A cascading grid of receptors was used to ensure impacts were below the appropriate SCAQMD California Environmental Quality Act (CEQA) thresholds at all locations offsite. These gridded receptors were located 100 meters apart from the fenceline out 500 meters, then 250 meters apart out to 2,000 meters.

Discrete Cartesian receptors were used to evaluate the locations of the maximally exposed residential, sensitive and off-site workplace. A series of receptors were placed along the residences to the south and northeast of the project. Receptors were located at the three nearest schools, Ranchito Avenue Elementary approximately 675 meters to the northeast, Panorama High School approximately 750 meters to the north, and Hazeltine Elementary approximately 850 meters to the south. To capture peak off-site worker exposure, receptors were located within the businesses to the south and north of the project. Figure 3-1 shows the locations of the discrete receptors, with the property line identified in red.

3.1.6 On-Site Buildings

On-site buildings close to the emission sources were included in the modeling using best available dimensional data. Building downwash effects were assessed using BPIPPRIME.

3.1.7 Emission Sources and Release Parameters

The exhaust stacks for the coating booth and each emergency generator were modeled as individual point sources (shown in red). The diesel truck traffic and forklifts were modeled as line-volume sources (shown in blue). Each emission source was sited using the plot plan provided, as shown in Figure 3-2. The release parameters for each source are shown in Table 3-1 and Table 3-2, respectively.

Figure 3-1: Residential, School, and Worker Receptor Locations



Figure 3-2: Source and Building Locations



Table 3-1: Emission Sources and Release Parameters for Point Sources

Stack IDs	Description	Stack Height	Stack Diameter	Stack Velocity	Stack Temp	UTM x	UTM y
		H _s	D _s	V _s	T _s	WGS84 z11	WGS84z11
		m	m	m/sec	°K	m	m
COATPNT	Paint Booth - Coating Shop	16.764	0.762	12.42	294	367,179.89	3,786,257.10
GEN1	Gen 1 - Supply Chain	3.480	0.152	98.76	734	366,992.03	3,786,417.87
GEN3	Gen 3 - Weld Shop	3.912	0.229	96.21	803	367,217.26	3,786,256.66
GEN4	Gen 4 - Meter Yard	3.912	0.203	96.30	823	367,001.32	3,786,292.33
GEN5	Gen 5 - Parking	3.327	0.152	93.29	797	367,097.76	3,786,334.59

Table 3-2: Emission Sources and Release Parameters for Diesel Truck Traffic and Forklifts

Stack IDs	Description	Plume Height	Plume Width	Release Height	Configuration Type
		PH	PW	RH	
		m	m	m	
SLINE1	Truck Traffic	5.1	9.0	2.55	Separated 2W
SLINE2	Forklifts	3.4	8.0	1.70	Separated 2W

3.2 Health Risk Assessment

The HRA followed the SCAQMD Tier-4 techniques, which are based on the California Office of Environmental Health Hazard Assessment (OEHHA) Tier-1 techniques, to calculate the health risk impacts at all receptors including the nearby residential, sensitive and off-site worker receptors. The health risk calculations were performed using the Hotspots Analysis and Reporting Program Version 2 (HARP2) Air Dispersion and Risk Tool (ADMRT, version 19044). The X/Q values that were determined for each source using AERMOD were imported into HARP2 and used in conjunction with hourly and annual emissions to determine the ground level concentrations (GLC) for each pollutant. The GLC are then used to estimate the long-term cancer health risk to an individual, and the non-cancer chronic and acute health indices.

A description of the health risk indices in the HARP2 output is provided below.

3.2.1 Maximum Individual Cancer Risk

Maximum Individual Cancer Risk (MICR) is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years for residential receptor locations and 25 years for off-site worker receptor locations. Sensitive receptors such as schools, hospitals, convalescent homes, and day-care centers are evaluated the same as residences.

Per SCAQMD guidance (2018b), the exposure pathways used to estimate the MICR for both residential/sensitive receptors and off-site workplace receptors are listed in Table 3-2. Any exposure pathways not explicitly shown in Table 3-3, e.g., drinking water consumption, were not included in this HRA.

Table 3-3: Exposure Pathways

Exposure Pathway	Residential/Sensitive	Off-Site Workplace
Inhalation	Yes	Yes
Homegrown Produce	Yes	No
Dermal	Yes	Yes
Soil Ingestion	Yes	Yes
Mother's Milk	Yes	No

Per SCAQMD guidelines (2018b), the MICR estimates assumed a deposition velocity of 0.02 meters per second and a warm climate for the dermal pathway. Residential/sensitive estimates were calculated using the Air Resources Board's Risk Management Policy (RMP), 'RMP Using the Derived Method', and off-site workplace MICR estimates used the 'OEHHA Derived' calculation method. The 'RMP Using the Derived Method' uses

high end breathing rates (95th percentile) for children from the 3rd trimester through age 2, and 80th percentile breathing rates for all other ages for residential exposures. The ‘OEHHA Derived’ method uses high end exposure parameters for the top two exposure pathways and mean exposure parameters for the remaining pathways for cancer risk estimates.

It was conservatively assumed that all nearby offsite workers will work 8 hours a day on weekdays. This schedule coincides with the anticipated project schedule, thus a worker adjustment factor (WAF) of 4.2 was applied in HARP2.

3.2.2 Chronic Hazard Risk

Some TACs increase non-cancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index (HIC) is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. The HIC estimates for all receptor types used the ‘OEHHA Derived’ calculation method.

3.2.3 Acute Hazard Risk

Some TACs increase non-cancer health risk due to short-term (acute) exposures. The Acute Hazard Index (HIA) is the sum of the individual substance acute hazard indices for all TACs affecting the same target organ system. Acute risk is calculated from a 1-hour exposure using the ‘OEHHA Derived’ calculation method.

3.2.4 Cancer Burden

Cancer burden is the estimated increase in the occurrence of cancer cases in a population subject to a MICR of greater than or equal to one in one million (1.0×10^{-6}) based on a 70-year exposure to TACs. The cancer burden is determined for the population located within the zone of impact, defined as the area within the one in one million cancer risk isopleth for a 70-year exposure.

4.0 RESULTS

The HARP2 output reports for all results presented in this section can be found in Appendix C, including the isopleth showing that the zone of impact from the 70-year cancer risk which extends offsite to the nearby residential population. The cancer burden impact is well below the SCAQMD significance threshold.

The results of the AERMOD/HARP2 HRA are summarized in Table 4-1. The following CEQA Significance Thresholds were used as the basis for determining impacts (SCAQMD 2019):

- Maximum Incremental Cancer Risk ≥ 10 in 1 million
- Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million)
- Chronic & Acute Hazard Index ≥ 1.0

This table shows that at all receptor types the predicted health risks are less than the SCAQMD Significance Thresholds.

Table 4-1: Health Risk Results

Impact Parameter	Receptor Type	Health Risk Impact (dimensionless)	SCAQMD Significance Threshold (dimensionless)	Significant (Yes/No)
MICR	Resident	6.55 in a million	10 in a million	No
	Worker	2.57 in a million	10 in a million	No
	Sensitive	1.35 in a million	10 in a million	No
HIC	Resident	0.00176	1	No
	Worker	0.00836	1	No
	Sensitive	0.000368	1	No
HIA	Resident	0.000391	1	No
	Worker	0.000498	1	No
	Sensitive	0.0000400	1	No
Cancer Burden		0.0243	0.5	No

5.0 REFERENCES

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

South Coast Air Quality Management District (SCAQMD), 2018a, SCAQMD Modeling Guidance for AERMOD. <https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/modeling-guidance>.

South Coast Air Quality Management District (SCAQMD), 2018b, AB 2588 and Rule 1402 Supplemental Guidelines (Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics “Hot Spots” Information and Assessment Act), September 2018.

South Coast Air Quality Management District (SCAQMD). 2019. Air Quality Significance Thresholds. <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>.

APPENDIX A – EMISSION CALCULATIONS

Emergency Generators Specifications - Tier 2

Generator Location	Kohler Model No.	Engine Rating BHP	Heat Rate BTU/BHP-hr	Exhaust Temp °F	Exhaust Height inches	Exhaust Diameter inches	Maint. Load percent	100% Load	75% Load	50% Load	33% Load	25% Load
								gal/hr	gal/hr	gal/hr	gal/hr	gal/hr
Gen 1 - Supply Chain	600REOVZB	903	6,235	862	137	6	27.0%	40.8	29.7	20.0	14.0	11.0
Gen 3 - Weld Shop	900REOZDE	1354	6,584	986	154	9	28.9%	64.6	49.4	33.6	23.7	18.7
Gen 4 - Meter Yard	700REOZDE	1046	6,742	1022	154	8	28.4%	51.1	38.5	26.2	18.4	14.5
Gen 5 - Parking	500REOZJ	755	6,489	975	131	6	28.7%	35.5	27.6	19.9	13.4	10.2

Emergency Generators Average Hourly Emissions - 30 Minutes Maintenance Load

Generator Location	ROG lbs/hr	NO _x lbs/hr	CO lbs/hr	SO _x lbs/hr	PM ₁₀ lbs/hr	PM _{2.5} lbs/hr	CO _{2e} lbs/hr
Gen 3 - Weld Shop	0.21	1.85	1.13	0.00	0.06	0.06	211
Gen 4 - Meter Yard	0.16	1.41	0.85	0.00	0.05	0.05	164
Gen 5 - Parking	0.11	1.03	0.62	0.00	0.04	0.04	115
Maintenance Max (lbs/hr)	0.21	1.85	1.13	0.00	0.06	0.06	211
Daily Totals (lbs/day)	0.60	5.44	3.31	0.01	0.19	0.19	614

Emergency Generators Maximum Hourly Emissions - 60 Minutes 100% Load

Generator Location	ROG lbs/hr	NO _x lbs/hr	CO lbs/hr	SO _x lbs/hr	PM ₁₀ lbs/hr	PM _{2.5} lbs/hr	CO _{2e} lbs/hr
Gen 3 - Weld Shop	1.42	12.82	7.79	0.02	0.45	0.45	1,459
Gen 4 - Meter Yard	1.10	9.90	6.02	0.01	0.35	0.34	1,154
Gen 5 - Parking	0.79	7.15	4.34	0.01	0.25	0.25	802
Testing Max (lbs/hr)	1.42	12.82	7.79	0.02	0.45	0.45	1,459
Daily Totals (lbs/day)	4.27	38.41	23.35	0.04	1.34	1.33	4,335

Emergency Generators Maximum Daily Emissions - 24 hours 100% Load

Generator Location	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO _{2e}
	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
Gen 1 - Supply Chain	22.8	205.1	124.7	0.2	7.2	7.1	22,108
Gen 3 - Weld Shop	34.2	307.6	187.0	0.4	10.8	10.7	35,006
Gen 4 - Meter Yard	26.4	237.6	144.5	0.3	8.3	8.3	27,692
Gen 5 - Parking	19.1	171.5	104.3	0.2	6.0	6.0	19,238
Daily Totals (lbs/day)	102	922	560	1.0	32.2	32.0	104,044

Emergency Generators Annual Average Emissions - ATCM 50 hours Maintenance Load

Generator Location	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO _{2e}
	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	MT/yr
Gen 1 - Supply Chain	12.9	115.4	70.1	0.1	4.1	4.0	5.6
Gen 3 - Weld Shop	20.6	185.2	112.6	0.2	6.5	6.4	9.6
Gen 4 - Meter Yard	15.6	140.6	85.5	0.2	4.9	4.9	7.4
Gen 5 - Parking	11.4	102.6	62.3	0.1	3.6	3.6	5.2
Annual Totals	60	544	331	1	19	19	28

Emergency Generators Annual PTE - ATCM 50 hours 100% Load

Generator Location	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO _{2e}
	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	MT/yr
Gen 1 - Supply Chain	0.02	0.21	0.13	0.0002	0.01	0.01	20.89
Gen 3 - Weld Shop	0.04	0.32	0.19	0.0004	0.01	0.01	33.08
Gen 4 - Meter Yard	0.03	0.25	0.15	0.0003	0.01	0.01	26.17
Gen 5 - Parking	0.02	0.18	0.11	0.0002	0.01	0.01	18.18
Annual Totals (tons/yr)	0.11	0.96	0.58	0.001	0.03	0.03	98

Source: EPA 2016. Emission Standards Reference Guide for On-road and Nonroad Vehicles and Engines
<https://www.epa.gov/emission-standards-reference-guide>

Diesel Emergency Generator Emissions Calculations- Gen 1

Operating Parameters	References/Remarks	Value	Units
Annual Throughput	ATCM (new ≤ 0.15 g/BHP-hr)	50	hrs/yr
Daily Throughput	PTE	24	hrs/day
Hourly Throughput	PTE	1.0	hrs/hr
Monthly Schedule	maintenance operation	0.5	hrs/hr
	PTE	1	days/mo

Constants	References/Remarks	Value	Units
Diesel Fuel HHV	40 CFR 98 Table C-1	138000	BTU/gal
Heat Rate	600REOZVB	6,235	BTU/BHP-hr
Standard Molar Volume	EPA Method 19 (68°F, 20°C)	385.3	dscf/lb-mole
Dry Fd Factor	EPA Method 19 (68°F, 20°C)	9190	dscf/mmBTU
Wet Fw Factor	EPA Method 19 (68°F, 20°C)	10320	wscf/mmBTU

Release Parameters	References/Remarks	Value	Units
Generator Rating	Client specified		kW
Electromechanical Conversion	Typical range is 80-95%		percent
*Annual Avg. Maintenance Load	600REOZVB	27.0%	percent
Engine Rating	600REOZVB	903	BHP
Hourly Heat Input	Calculated for heat rate	5.63	mmBTU/hr
Stack Exit Temperature	600REOZVB	862	°F
Stack Exit Temperature	Calculated for modeling	734	°K
Stack Gas Oxygen Content	Standard	15.00	percent O ₂
Stack Flowrate, wet standard	Calculated for percent O ₂	3430	wscf/min
Stack Flowrate, actual	Calculated for stack temp	8589	wacf/min
Stack Flowrate, actual	Calculated for modeling	4.05	wacm/sec
Stack Height	600REOZVB	11.42	feet
Stack Height	Calculated for modeling	3.48	meters
Stack Diameter	600REOZVB	6.00	inches
Stack Diameter	Calculated for modeling	0.15	meters
Stack Velocity	Calculated for modeling	222.22	meters/sec
Stack Velocity	Informational	43744	feet/min

Diesel Emergency Generator Emissions Calculations- Gen 1

Criteria Pollutants, TACs, GHGs	CAS No.	Emission Factor lb/hr	Average Hourly lb/hr	Maximum Hourly lb/hr	Maximum Daily lb/day	30-Day Average lb/day	Annual Total PTE		Annual Average* g/sec	Hourly Maximum g/sec
							lb/yr	tons/yr		
CO (1-hr std)	630080.1	5.196	0.030	2.598	124.70	4.16	259.8	0.130	1.01E-03	3.27E-01
CO (8-hr std)	630080	5.196	0.030	5.196	124.70	4.16	259.8	0.130	1.01E-03	6.55E-01
NO _x (1-hr std)	10102440.1	8.546	0.049	4.273	205.10	6.84	427.3	0.214	1.66E-03	5.38E-01
NO _x (annual std)	10102440	8.546	0.049	8.546	205.10	6.84	427.3	0.214	1.66E-03	1.08E+00
PM ₁₀	85101	0.299	0.002	0.299	7.18	0.24	15.0	0.008	5.81E-05	3.77E-02
PM _{2.5}	88101	0.297	0.002	0.297	7.13	0.24	14.9	0.007	5.77E-05	3.74E-02
VOC	43104	0.950	0.005	0.950	22.80	0.76	47.5	0.024	1.84E-04	1.20E-01
SO _x	7446095	0.008	0.000	0.008	0.19	0.01	0.4	0.000	1.55E-06	1.01E-03
Diesel Particulate Matter (DPM)	9901	0.299	0.002	0.299	7.18	0.24	15.0	0.008	5.81E-05	3.77E-02
Diesel Total Organic Gas (DTOG)	9902	1.043	0.006	1.043	25.03	0.83	52.2	0.026	2.03E-04	1.31E-01
CO ₂	124389	918.0	5.24	918	22,033	734.43	45,902	20.82	—	—
CH ₄	74828	0.037	0.000	0.037	0.89	0.03	1.85	0.00	—	—
N ₂ O	10024972	0.007	0.000	0.007	0.17	0.01	0.35	0.00	—	—
CO ₂ e	124389	921.2	5.26	921	22,108	736.95	46,059	20.89	—	—

Sources: 40 CFR 1039.101, 17 CCR 93115

Notes:

Assumes DPM = PM10; DTOG = VOC/0.91 (AP-42 Ch. 3.4)
Annual GHGs in units of MT/yr

Diesel Emergency Generator Emissions Calculations- Gen 1

Select Row of Tiered Factors from Nonroad Tiers (CO, NO _x , PM, NMHC)			
Pollutant	g/BHP-hr for BHP	BHP	lb/hr
CO	2.610	903	5.196
NO _x	4.293	903	8.546
PM ₁₀	0.150	903	0.299
PM _{2.5} (99% of PM ₁₀)	0.149	903	0.297
VOC (NMHC)	0.477	903	0.950
SO _x	0.004	903	0.008
DPM	0.150	903	0.299
DTOG	0.524	903	1.043
CO ₂	461.141	903	918.0
CH ₄	0.019	903	0.037
N ₂ O	0.004	903	0.007
CO ₂ e	462.723	903	921.2

Ordered Format - Hourly

ROG lbs/hr	NO _x lbs/hr	CO lbs/hr	SO _x lbs/hr	PM ₁₀ lbs/hr	PM _{2.5} lbs/hr	CO ₂ e lbs/hr
0.95	8.55	5.20	0.01	0.30	0.30	921

Ordered Format - Daily

ROG lbs/day	NO _x lbs/day	CO lbs/day	SO _x lbs/day	PM ₁₀ lbs/day	PM _{2.5} lbs/day	CO ₂ e lbs/day
22.80	205.10	124.70	0.19	7.18	7.13	22,108

Ordered Format - Annual

ROG tons/yr	NO _x tons/yr	CO tons/yr	SO _x tons/yr	PM ₁₀ tons/yr	PM _{2.5} tons/yr	CO ₂ e MT/yr
0.02	0.21	0.13	0.000	0.008	0.007	20.9

Table 3: Rules 404 & 409 Compliance Evaluation

Particulate Matter Emissions	Value	Units
Particulate Matter Concentration	0.0102	gr/dscf
Stack Flowrate, dry standard	3.055	dscf/min
Rule 404 Limit - Table 404(a)	0.1237	gr/dscf
Rule 404 Evaluation	PASS	
Rule 409 Limit	0.1000	gr/dscf
Rule 409 Evaluation	PASS	

Table 1: Criteria Pollutants Emissions Summary

Criteria	AHU (lb/hr)	AHC (lb/hr)	MHU (lb/hr)	MHC (lb/hr)	MDU (lb/day)	MDC (lb/day)	AA (lb/yr)	30DA (lb/day)
CO	0.030	0.030	5.196	5.196	124.70	124.70	259.8	4.16
NO _x	0.049	0.049	8.546	8.546	205.10	205.10	427.3	6.84
PM ₁₀	0.002	0.002	0.299	0.299	7.18	7.18	15.0	0.24
PM _{2.5}	0.002	0.002	0.297	0.297	7.13	7.13	14.9	0.24
VOC	0.005	0.005	0.950	0.950	22.80	22.80	47.5	0.76
SO _x	0.000	0.000	0.008	0.008	0.19	0.19	0.4	0.01

Table 2: Toxic Air Contaminants Emissions Summary

Toxic Air Contaminants	CAS No.	MHU (lb/hr)	MHC (lb/hr)	MAC (lb/yr)
Diesel Particulate Matter (DPM)	9901	0.299	0.299	15.0
Diesel Total Organic Gas (DTOG)	9902	1.043	1.043	52.2

Diesel Emergency Generator Emissions Calculations- Gen 3

Operating Parameters	References/Remarks	Value	Units
Annual Throughput	ATCM (new ≤ 0.15 g/BHP-hr)	50	hrs/yr
Daily Throughput	PTE	24	hrs/day
Hourly Throughput	PTE	1.0	hrs/hr
Monthly Schedule	maintenance operation	0.5	hrs/hr
	PTE	1	days/mo

Constants	References/Remarks	Value	Units
Diesel Fuel HHV	40 CFR 98 Table C-1	138000	BTU/gal
Heat Rate	900REOZDE	6,584	BTU/BHP-hr
Standard Molar Volume	EPA Method 19 (68°F, 20°C)	385.3	dscf/lb-mole
Dry Fd Factor	EPA Method 19 (68°F, 20°C)	9190	dscf/mmBTU
Wet Fw Factor	EPA Method 19 (68°F, 20°C)	10320	wscf/mmBTU

Release Parameters	References/Remarks	Value	Units
Generator Rating	Client specified		kW
Electromechanical Conversion	Typical range is 80-95%		percent
*Annual Avg. Maintenance Load	900REOZDE	28.9%	percent
Engine Rating	900REOZDE	1354	BHP
Hourly Heat Input	Calculated for heat rate	8.91	mmBTU/hr
Stack Exit Temperature	900REOZDE	986	°F
Stack Exit Temperature	Calculated for modeling	803	°K
Stack Gas Oxygen Content	Standard	15.00	percent O ₂
Stack Flowrate, wet standard	Calculated for percent O ₂	5432	wscf/min
Stack Flowrate, actual	Calculated for stack temp	14875	wacf/min
Stack Flowrate, actual	Calculated for modeling	7.02	wacm/sec
Stack Height	900REOZDE	12.83	feet
Stack Height	Calculated for modeling	3.91	meters
Stack Diameter	900REOZDE	9.00	inches
Stack Diameter	Calculated for modeling	0.23	meters
Stack Velocity	Calculated for modeling	171.05	meters/sec
Stack Velocity	Informational	33671	feet/min

Diesel Emergency Generator Emissions Calculations- Gen 3

Criteria Pollutants, TACs, GHGs	CAS No.	Emission Factor lb/hr	Average Hourly lb/hr	Maximum Hourly lb/hr	Maximum Daily lb/day	30-Day Average lb/day	Annual Total PTE		Hourly Maximum g/sec	
							lb/yr	tons/yr		
CO (1-hr std)	630080.1	7.791	0.044	3.896	186.98	6.23	389.6	0.195	1.62E-03	4.91E-01
CO (8-hr std)	630080	7.791	0.044	7.791	186.98	6.23	389.6	0.195	1.62E-03	9.82E-01
NO _x (1-hr std)	10102440.1	12.815	0.073	6.408	307.56	10.25	640.8	0.320	2.66E-03	8.07E-01
NO _x (annual std)	10102440	12.815	0.073	12.815	307.56	10.25	640.8	0.320	2.66E-03	1.61E+00
PM ₁₀	85101	0.448	0.003	0.448	10.75	0.36	22.4	0.011	9.31E-05	5.64E-02
PM _{2.5}	88101	0.445	0.003	0.445	10.68	0.36	22.3	0.011	9.25E-05	5.61E-02
VOC	43104	1.424	0.008	1.424	34.18	1.14	71.2	0.036	2.96E-04	1.79E-01
SO _x	7446095	0.015	0.000	0.015	0.36	0.01	0.8	0.000	3.12E-06	1.89E-03
Diesel Particulate Matter (DPM)	9901	0.448	0.003	0.448	10.75	0.36	22.4	0.011	9.31E-05	5.64E-02
Diesel Total Organic Gas (DIOG)	9902	1.564	0.009	1.564	37.54	1.25	78.2	0.039	3.25E-04	1.97E-01
CO ₂	124389	1453.6	8.30	1.454	34,886	1162.87	72,680	32.97	—	—
CH ₄	74828	0.059	0.000	0.059	1.42	0.05	2.95	0.00	—	—
N ₂ O	10024972	0.012	0.000	0.012	0.29	0.01	0.60	0.00	—	—
CO ₂ e	124389	1458.6	8.33	1.459	35,006	1166.86	72,929	33.08	—	—

Sources: 40 CFR 1039.101, 17 CCR 93115

Notes:

Assumes DPM = PM10; DIOG = VOC/0.91 (AP-42 Ch. 3.4)
Annual GHGs in units of MT/yr

Diesel Emergency Generator Emissions Calculations- Gen 3

Select Row of Tiered Factors from Nonroad Tiers (CO, NO _x , PM, NMHC)			
Pollutant	g/BHP-hr for BHP	BHP	lb/hr
CO	2.610	1354	7.791
NO _x	4.293	1354	12.815
PM ₁₀	0.150	1354	0.448
PM _{2.5} (99% of PM ₁₀)	0.149	1354	0.445
VOC (NMHC)	0.477	1354	1.424
SO _x	0.005	1354	0.015
DPM	0.150	1354	0.448
DTOG	0.524	1354	1.564
CO ₂	486.953	1354	1453.6
CH ₄	0.020	1354	0.059
N ₂ O	0.004	1354	0.012
CO ₂ e	488.624	1354	1458.6

Ordered Format - Hourly

ROG lbs/hr	NO _x lbs/hr	CO lbs/hr	SO _x lbs/hr	PM ₁₀ lbs/hr	PM _{2.5} lbs/hr	CO ₂ e lbs/hr
1.42	12.82	7.79	0.02	0.45	0.45	1,459

Ordered Format - Daily

ROG lbs/day	NO _x lbs/day	CO lbs/day	SO _x lbs/day	PM ₁₀ lbs/day	PM _{2.5} lbs/day	CO ₂ e lbs/day
34.18	307.56	186.98	0.36	10.75	10.68	35,006

Ordered Format - Annual

ROG tons/yr	NO _x tons/yr	CO tons/yr	SO _x tons/yr	PM ₁₀ tons/yr	PM _{2.5} tons/yr	CO ₂ e MT/yr
0.04	0.32	0.19	0.000	0.011	0.011	33.1

Table 3: Rules 404 & 409 Compliance Evaluation

Particulate Matter Emissions	Value	Units
Particulate Matter Concentration	0.0102	gr/dscf
Stack Flowrate, dry standard	4.837	dscf/min
Rule 404 Limit - Table 404(a)	0.1041	gr/dscf
Rule 404 Evaluation	PASS	
Rule 409 Limit	0.1000	gr/dscf
Rule 409 Evaluation	PASS	

Table 1: Criteria Pollutants Emissions Summary

Criteria	AHU (lb/hr)	AHC (lb/hr)	MHU (lb/hr)	MHC (lb/hr)	MDU (lb/day)	MDC (lb/day)	AA (lb/yr)	30DA (lb/day)
CO	0.044	0.044	7.791	7.791	186.98	186.98	389.6	6.23
NO _x	0.073	0.073	12.815	12.815	307.56	307.56	640.8	10.25
PM ₁₀	0.003	0.003	0.448	0.448	10.75	10.75	22.4	0.36
PM _{2.5}	0.003	0.003	0.445	0.445	10.68	10.68	22.3	0.36
VOC	0.008	0.008	1.424	1.424	34.18	34.18	71.2	1.14
SO _x	0.0001	0.0001	0.015	0.015	0.36	0.36	0.8	0.01

Table 2: Toxic Air Contaminants Emissions Summary

Toxic Air Contaminants	CAS No.	MHU (lb/hr)	MHC (lb/hr)	MAC (lb/yr)
Diesel Particulate Matter (DPM)	9901	0.448	0.448	22.4
Diesel Total Organic Gas (DTOG)	9902	1.564	1.564	78.2

Diesel Emergency Generator Emissions Calculations- Gen 4

Operating Parameters	References/Remarks	Value	Units
Annual Throughput	ATCM (new ≤ 0.15 g/BHP-hr)	50	hrs/yr
Daily Throughput	PTE	24	hrs/day
Hourly Throughput	PTE	1.0	hrs/hr
Monthly Schedule	maintenance operation	0.5	hrs/hr
	PTE	1	days/mo

Constants	References/Remarks	Value	Units
Diesel Fuel HHV	40 CFR 98 Table C-1	138000	BTU/gal
Heat Rate	700REOZDE	6,742	BTU/BHP-hr
Standard Molar Volume	EPA Method 19 (68°F, 20°C)	385.3	dscf/lb-mole
Dry Fd Factor	EPA Method 19 (68°F, 20°C)	9190	dscf/mmBTU
Wet Fw Factor	EPA Method 19 (68°F, 20°C)	10320	wscf/mmBTU

Release Parameters	References/Remarks	Value	Units
Generator Rating	Client specified		kW
Electromechanical Conversion	Typical range is 80-95%		percent
*Annual Avg. Maintenance Load	700REOZDE	28.4%	percent
Engine Rating	700REOZDE	1046	BHP
Hourly Heat Input	Calculated for heat rate	7.05	mmBTU/hr
Stack Exit Temperature	700REOZDE	1022	°F
Stack Exit Temperature	Calculated for modeling	823	°K
Stack Gas Oxygen Content	Standard	15.00	percent O ₂
Stack Flowrate, wet standard	Calculated for percent O ₂	4297	wscf/min
Stack Flowrate, actual	Calculated for stack temp	12060	wacf/min
Stack Flowrate, actual	Calculated for modeling	5.69	wacm/sec
Stack Height	700REOZDE	12.83	feet
Stack Height	Calculated for modeling	3.91	meters
Stack Diameter	700REOZDE	8.00	inches
Stack Diameter	Calculated for modeling	0.20	meters
Stack Velocity	Calculated for modeling	175.51	meters/sec
Stack Velocity	Informational	34550	feet/min

Diesel Emergency Generator Emissions Calculations- Gen 4

Criteria Pollutants, TACs, GHGs	CAS No.	Emission Factor lb/hr	Average Hourly lb/hr	Maximum Hourly lb/hr	Maximum Daily lb/day	30-Day Average lb/day	Annual Total PTE		Annual Average* g/sec	Hourly Maximum g/sec
							lb/yr	tons/yr		
CO (1-hr std)	630080.1	6.019	0.034	3.010	144.46	4.82	301.0	0.151	1.23E-03	3.79E-01
CO (8-hr std)	630080	6.019	0.034	6.019	144.46	4.82	301.0	0.151	1.23E-03	7.58E-01
NO _x (1-hr std)	10102440.1	9.900	0.057	4.950	237.60	7.92	495.0	0.248	2.02E-03	6.24E-01
NO _x (annual std)	10102440	9.900	0.057	9.900	237.60	7.92	495.0	0.248	2.02E-03	1.25E+00
PM ₁₀	85101	0.346	0.002	0.346	8.30	0.28	17.3	0.009	7.07E-05	4.36E-02
PM _{2.5}	88101	0.344	0.002	0.344	8.26	0.28	17.2	0.009	7.03E-05	4.33E-02
VOC	43104	1.100	0.006	1.100	26.40	0.88	55.0	0.028	2.25E-04	1.39E-01
SO _x	7446095	0.012	0.000	0.012	0.29	0.01	0.6	0.000	2.45E-06	1.51E-03
Diesel Particulate Matter (DPM)	9901	0.346	0.002	0.346	8.30	0.28	17.3	0.009	7.07E-05	4.36E-02
Diesel Total Organic Gas (DIOG)	9902	1.208	0.007	1.208	28.99	0.97	60.4	0.030	2.47E-04	1.52E-01
CO ₂	124389	1149.9	6.56	1.150	27,597	919.91	57,494	26.08	—	—
CH ₄	74828	0.047	0.000	0.047	1.13	0.04	2.35	0.00	—	—
N ₂ O	10024972	0.009	0.000	0.009	0.22	0.01	0.45	0.00	—	—
CO ₂ e	124389	1153.8	6.59	1.154	27,692	923.06	57,691	26.17	—	—

Sources: 40 CFR 1039.101, 17 CCR 93115

Notes:

Assumes DPM = PM10; DIOG = VOC/0.91 (AP-42 Ch. 3.4)
Annual GHGs in units of MT/yr

Diesel Emergency Generator Emissions Calculations- Gen 4

Select Row of Tiered Factors from Nonroad Tiers (CO, NO _x , PM, NMHC)			
Pollutant	g/BHP-hr for BHP	BHP	lb/hr
CO	2.610	1046	6.019
NO _x	4.293	1046	9.900
PM ₁₀	0.150	1046	0.346
PM _{2.5} (99% of PM ₁₀)	0.149	1046	0.344
VOC (NMHC)	0.477	1046	1.100
SO _x	0.005	1046	0.012
DPM	0.150	1046	0.346
DTOG	0.524	1046	1.208
CO ₂	498.638	1046	1149.9
CH ₄	0.020	1046	0.047
N ₂ O	0.004	1046	0.009
CO ₂ e	500.349	1046	1153.8

Ordered Format - Hourly

ROG lbs/hr	NO _x lbs/hr	CO lbs/hr	SO _x lbs/hr	PM ₁₀ lbs/hr	PM _{2.5} lbs/hr	CO ₂ e lbs/hr
1.10	9.90	6.02	0.01	0.35	0.34	1,154

Ordered Format - Daily

ROG lbs/day	NO _x lbs/day	CO lbs/day	SO _x lbs/day	PM ₁₀ lbs/day	PM _{2.5} lbs/day	CO ₂ e lbs/day
26.40	237.60	144.46	0.29	8.30	8.26	27,692

Ordered Format - Annual

ROG tons/yr	NO _x tons/yr	CO tons/yr	SO _x tons/yr	PM ₁₀ tons/yr	PM _{2.5} tons/yr	CO ₂ e MT/yr
0.03	0.25	0.15	0.000	0.009	0.009	26.2

Table 3: Rules 404 & 409 Compliance Evaluation

Particulate Matter Emissions	Value	Units
Particulate Matter Concentration	0.0102	gr/dscf
Stack Flowrate, dry standard	3.826	dscf/min
Rule 404 Limit - Table 404(a)	0.1137	gr/dscf
Rule 404 Evaluation	PASS	
Rule 409 Limit	0.1000	gr/dscf
Rule 409 Evaluation	PASS	

Table 1: Criteria Pollutants Emissions Summary

Criteria	AHU (lb/hr)	AHC (lb/hr)	MHU (lb/hr)	MHC (lb/hr)	MDU (lb/day)	MDC (lb/day)	AA (lb/yr)	30DA (lb/day)
CO	0.034	0.034	6.019	6.019	144.46	144.46	301.0	4.82
NO _x	0.057	0.057	9.900	9.900	237.60	237.60	495.0	7.92
PM ₁₀	0.002	0.002	0.346	0.346	8.30	8.30	17.3	0.28
PM _{2.5}	0.002	0.002	0.344	0.344	8.26	8.26	17.2	0.28
VOC	0.006	0.006	1.100	1.100	26.40	26.40	55.0	0.88
SO _x	0.0001	0.0001	0.012	0.012	0.29	0.29	0.6	0.01

Table 2: Toxic Air Contaminants Emissions Summary

Toxic Air Contaminants	CAS No.	MHU (lb/hr)	MHC (lb/hr)	MAC (lb/yr)
Diesel Particulate Matter (DPM)	9901	0.346	0.346	17.3
Diesel Total Organic Gas (DTOG)	9902	1.208	1.208	60.4

Diesel Emergency Generator Emissions Calculations - Gen 5

Operating Parameters	References/Remarks	Value	Units
Annual Throughput	ATCM (new ≤ 0.15 g/BHP-hr)	50	hrs/yr
Daily Throughput	PTE	24	hrs/day
Hourly Throughput	PTE	1.0	hrs/hr
Monthly Schedule	maintenance operation	0.5	hrs/hr
	PTE	1	days/mo

Constants	References/Remarks	Value	Units
Diesel Fuel HHV	40 CFR 98 Table C-1	138000	BTU/gal
Heat Rate	500REOZJ	6,489	BTU/BHP-hr
Standard Molar Volume	EPA Method 19 (68°F, 20°C)	385.3	dscf/lb-mole
Dry Fd Factor	EPA Method 19 (68°F, 20°C)	9190	dscf/mmBTU
Wet Fw Factor	EPA Method 19 (68°F, 20°C)	10320	wscf/mmBTU

Release Parameters	References/Remarks	Value	Units
Generator Rating	Client specified		kW
Electromechanical Conversion	Typical range is 80-95%		percent
*Annual Avg. Maintenance Load	500REOZJ	28.7%	percent
Engine Rating	500REOZJ	755	BHP
Hourly Heat Input	Calculated for heat rate	4.90	mmBTU/hr
Stack Exit Temperature	500REOZJ	975	°F
Stack Exit Temperature	Calculated for modeling	797	°K
Stack Gas Oxygen Content	Standard	15.00	percent O ₂
Stack Flowrate, wet standard	Calculated for percent O ₂	2985	wscf/min
Stack Flowrate, actual	Calculated for stack temp	8113	wacf/min
Stack Flowrate, actual	Calculated for modeling	3.83	wacm/sec
Stack Height	500REOZJ	10.92	feet
Stack Height	Calculated for modeling	3.33	meters
Stack Diameter	500REOZJ	6.00	inches
Stack Diameter	Calculated for modeling	0.15	meters
Stack Velocity	Calculated for modeling	209.89	meters/sec
Stack Velocity	Informational	41318	feet/min

Diesel Emergency Generator Emissions Calculations - Gen 5

Criteria Pollutants, TACs, GHGs	CAS No.	Emission Factor lb/hr	Average Hourly lb/hr	Maximum Hourly lb/hr	Maximum Daily lb/day	30-Day Average lb/day	Annual Total PTE		Annual Average* g/sec	Hourly Maximum g/sec
							lb/yr	tons/yr		
CO (1-hr std)	630080.1	4.344	0.025	2.172	104.26	3.48	217.2	0.109	8.97E-04	2.74E-01
CO (8-hr std)	630080	4.344	0.025	4.344	104.26	3.48	217.2	0.109	8.97E-04	5.47E-01
NO _x (1-hr std)	10102440.1	7.146	0.041	3.573	171.50	5.72	357.3	0.179	1.47E-03	4.50E-01
NO _x (annual std)	10102440	7.146	0.041	7.146	171.50	5.72	357.3	0.179	1.47E-03	9.00E-01
PM ₁₀	85101	0.250	0.001	0.250	6.00	0.20	12.5	0.006	5.16E-05	3.15E-02
PM _{2.5}	88101	0.248	0.001	0.248	5.95	0.20	12.4	0.006	5.12E-05	3.12E-02
VOC	43104	0.794	0.005	0.794	19.06	0.64	39.7	0.020	1.64E-04	1.00E-01
SO _x	7446095	0.008	0.000	0.008	0.19	0.01	0.4	0.000	1.65E-06	1.01E-03
Diesel Particulate Matter (DPM)	9901	0.250	0.001	0.250	6.00	0.20	12.5	0.006	5.16E-05	3.15E-02
Diesel Total Organic Gas (DIOG)	9902	0.872	0.005	0.872	20.93	0.70	43.6	0.022	1.80E-04	1.10E-01
CO ₂	124389	798.8	4.56	799	19,172	639.07	39,942	18.12	—	—
CH ₄	74828	0.032	0.000	0.032	0.77	0.03	1.60	0.00	—	—
N ₂ O	10024972	0.006	0.000	0.006	0.14	0.00	0.30	0.00	—	—
CO ₂ e	124389	801.6	4.58	802	19,238	641.26	40,079	18.18	—	—

Sources: 40 CFR 1039.101, 17 CCR 93115

Notes:

Assumes DPM = PM10; DIOG = VOC/0.91 (AP-42 Ch. 3.4)
Annual GHGs in units of MT/yr

Diesel Emergency Generator Emissions Calculations - Gen 5

Select Row of Tiered Factors from Nonroad Tiers (CO, NO _x , PM, NMHC)			
Pollutant	g/BHP-hr for BHP	BHP	lb/hr
CO	2.610	755	4.344
NO _x	4.293	755	7.146
PM ₁₀	0.150	755	0.250
PM _{2.5} (99% of PM ₁₀)	0.149	755	0.248
VOC (NMHC)	0.477	755	0.794
SO _x	0.005	755	0.008
DPM	0.150	755	0.250
DTOG	0.524	755	0.872
CO ₂	479.926	755	798.8
CH ₄	0.019	755	0.032
N ₂ O	0.004	755	0.006
CO ₂ e	481.573	755	801.6

Ordered Format - Hourly

ROG lbs/hr	NO _x lbs/hr	CO lbs/hr	SO _x lbs/hr	PM ₁₀ lbs/hr	PM _{2.5} lbs/hr	CO ₂ e lbs/hr
0.79	7.15	4.34	0.01	0.25	0.25	802

Ordered Format - Daily

ROG lbs/day	NO _x lbs/day	CO lbs/day	SO _x lbs/day	PM ₁₀ lbs/day	PM _{2.5} lbs/day	CO ₂ e lbs/day
19.06	171.50	104.26	0.19	6.00	5.95	19,238

Ordered Format - Annual

ROG tons/yr	NO _x tons/yr	CO tons/yr	SO _x tons/yr	PM ₁₀ tons/yr	PM _{2.5} tons/yr	CO ₂ e MT/yr
0.02	0.18	0.11	0.000	0.006	0.006	18.2

Table 3: Rules 404 & 409 Compliance Evaluation

Particulate Matter Emissions	Value	Units
Particulate Matter Concentration	0.0102	gr/dscf
Stack Flowrate, dry standard	2.658	dscf/min
Rule 404 Limit - Table 404(a)	0.1303	gr/dscf
Rule 404 Evaluation	PASS	
Rule 409 Limit	0.1000	gr/dscf
Rule 409 Evaluation	PASS	

Table 1: Criteria Pollutants Emissions Summary

Criteria	AHU (lb/hr)	AHC (lb/hr)	MHU (lb/hr)	MHC (lb/hr)	MDU (lb/day)	MDC (lb/day)	AA (lb/yr)	30DA (lb/day)
CO	0.025	0.025	4.344	4.344	104.26	104.26	217.2	3.48
NO _x	0.041	0.041	7.146	7.146	171.50	171.50	357.3	5.72
PM ₁₀	0.001	0.001	0.250	0.250	6.00	6.00	12.5	0.20
PM _{2.5}	0.001	0.001	0.248	0.248	5.95	5.95	12.4	0.20
VOC	0.005	0.005	0.794	0.794	19.06	19.06	39.7	0.64
SO _x	0.000	0.000	0.008	0.008	0.19	0.19	0.4	0.01

Table 2: Toxic Air Contaminants Emissions Summary

Toxic Air Contaminants	CAS No.	MHU (lb/hr)	MHC (lb/hr)	MAC (lb/yr)
Diesel Particulate Matter (DPM)	9901	0.250	0.250	12.5
Diesel Total Organic Gas (DTOG)	9902	0.872	0.872	43.6

Paint Booth Criteria Emissions

Permit Unit	CAS No.	Emittents	AHU (lbs/hr)	AHC (lbs/hr)	MHU (lbs/hr)	MHC (lbs/hr)	MDU (lbs/day)	MDC (lbs/day)	AA (lbs/yr)	30DA (lbs/day)
	43104	Volatile Organic Compounds (VOC)	0.18	0.18	1.96	1.96	7.84	7.84	1567.87	4.36
	85101	Particulate Matter 10 Microns or Less	1.04	0.04	11.40	0.40	45.59	1.60	319.15	0.89

TAC Emissions

Permit Unit	CAS No.	Emittents	MHU (lbs/hr)	MHC (lbs/hr)	MAC (lbs/yr)
	1330207	Xylene	0.33	0.33	261.5
	100414	Ethylbenzene	0.09	0.09	70.8
	108656	2-methoxy-1-methylethyl acetate	0.07	0.07	53.3
	822060	Hexamethylene diisocyanate	0.00	0.00	1.4
	95636	1,2,4-trimethylbenzene	0.07	0.07	56.3
	108952	Phenol	0.01	0.01	8.8

Process Mass Balance - Amersfield Resin (Part A)

Permit Unit	CAS No.	Emittents	Type	Mixture Specification SDS Content			Uncontrolled Rates			Controlled Rates			An. Avg. g/sec	Hr. Max. g/sec	
				Wt. %	sp gr	g/l	lb/gal	lb/hr	lb/day	lb/yr	lb/hr	lb/day			lb/yr
	123864	n-butyl acetate	VOC	15.00%	1.42	213.0	1.776	4.00	0.999	4.00	799.4	4.00	799.4	---	---
	119642	1,2,3,4-tetrahydronaphthalene	VOC	0.10%	1.42	1.4	0.012	0.007	0.03	0.03	5.3	0.03	5.3	---	---
	1330207	Xylene	VOC TAC	2.50%	1.42	35.5	0.296	0.167	0.67	133.2	1.92E-03	0.67	133.2	1.92E-03	2.10E-02
	100414	Ethylbenzene	VOC TAC	1.00%	1.42	14.2	0.118	0.067	0.27	53.3	0.067	0.27	53.3	7.67E-04	8.39E-03
	108656	2-methoxy-1-methylethyl acetate	VOC TAC	1.00%	1.42	14.2	0.118	0.067	0.27	53.3	0.067	0.27	53.3	7.67E-04	8.39E-03
	41556267	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Inert	0.25%	1.42	3.6	0.030	0.017	0.07	13.3	0.017	0.07	13.3	---	---
	82919377	Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Inert	0.10%	1.42	1.4	0.012	0.007	0.03	5.3	0.007	0.03	5.3	---	---
	43104	Volatile Organic Compounds (VOC)	VOC	19.60%	1.42	278.3	2.321	1.306	5.22	1,044.5	5.22	1,044.5	---	---	
	85101	Other (as max solids for PM LST)	PM LST	80.05%	1.42	1136.7	9.480	5.333	21.33	4,266.1	149.3	2,15E-03	---	---	

Operating Schedule			Material Usage			PM TE		PM TCE		VOC CE		TACS	
hrs/day	days/mo	mos/yr	gal/hr	gal/day	gal/yr	percent	percent	percent	percent	percent	percent	g/sec	g/sec
4	16.67	12	0.563	2.25	450	65.0%	90.0%	96.5%	0.0%	0.0%	0.0%	3.78E-02	3.78E-02

Criteria Emissions

Permit Unit	CAS No.	Emittents	AHU (lbs/hr)	AHC (lbs/hr)	MHU (lbs/hr)	MHC (lbs/hr)	MDU (lbs/day)	MDC (lbs/day)	AA (lbs/yr)	30DA (lbs/day)
	43104	Volatile Organic Compounds (VOC)	0.12	0.12	1.31	1.31	5.22	5.22	1044.53	2.90
	85101	Particulate Matter 10 Microns or Less	0.49	0.02	5.33	0.19	21.33	0.75	149.31	0.41

TAC Emissions

Permit Unit	CAS No.	Emittents	MHU (lbs/hr)	MHC (lbs/hr)	MAC (lbs/yr)
	1330207	Xylene	0.167	0.167	133.23
	100414	Ethylbenzene	0.067	0.067	53.29
	108656	2-methoxy-1-methylethyl acetate	0.067	0.067	53.29

Part A + Part B Mix (3:1)

Part	Fraction	Part, g/l	Mix, g/l	lb/gal
Resin A	75%	278.3	208.7	1.74
Hardener B	25%	57.6	14.4	0.12
Applied A+B	100%	Rule 1151(d)(1) Any Other Coating Type (250 g/l)	223.1	1.86

Paint Solids Ranges

Paint Type	Volume Solids
Sealers	10-25%
Architectural Paints **	35-45%
Industrial Enamels	25-45%
2K Epoxies	40-80%
2K Polyurethanes	30-45%

Source: <http://carb.com/understanding-volume-solids/>

Process Mass Balance - Amersfield Hardener (Part B)

Permit Unit	CAS No.	Emittents	Type	Mixture Specification SDS Content			Uncontrolled Rates			Controlled Rates			An. Avg. g/sec	Hr. Max. g/sec		
				Wt. %	sp gr	g/l	lb/gal	lb/hr	lb/day	lb/yr	lb/hr	lb/day			lb/yr	
	123864	n-butyl acetate	VOC	2.50%	1.13	28.3	0.236	0.044	0.18	0.044	0.18	35.3	0.044	0.18	35.3	---
	64742956	Napiptha	VOC	2.50%	1.13	28.3	0.236	0.044	0.18	0.044	0.18	35.3	0.044	0.18	35.3	---
	822060	Hexamethylene diisocyanate	VOC TAC	0.10%	1.13	1.1	0.009	0.002	0.01	0.002	0.01	1.4	0.002	0.01	1.4	2.03E-05
	28182812	Isocyanic acid hexamethylene ester polymers	Inert	94.90%	1.13	1072.4	8.944	1.677	6.71	1.677	6.71	1,341.5	1.677	6.71	1,341.5	---
	43104	Volatle Organic Compounds (VOC)	VOC	5.10%	1.13	57.6	0.481	0.090	0.36	0.090	0.36	72.1	0.090	0.36	72.1	---
	85101	Other (as max solids for PM LST)	PM LST	0.00%	1.13	0.0	0.000	0.000	0.00	0.000	0.00	0.0	0.000	0.00	0.0	0.00E+00

Operating Schedule			Material Usage			PM TE	PM CE	PM TCE	VOC CE	TACs
hrs/day	days/mo	mos/yr	gal/hr	gal/day	gal/yr	percent	percent	percent	percent	g/sec
4	16.67	12	0.188	0.75	150	65.0%	90.0%	96.5%	0.0%	2.23E-04

Criteria Emissions

Permit Unit	CAS No.	Emittents	AHU	AHC	MHU	MHC	MDU	MDC	AA	30DA
			(lbs/hr)	(lbs/hr)	(lbs/hr)	(lbs/day)	(lbs/day)	(lbs/yr)	(lbs/day)	(lbs/day)
43104		Volatle Organic Compounds (VOC)	0.01	0.01	0.09	0.09	0.36	0.36	72.10	0.20
85101		Particulate Matter 10 Microns or Less	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TAC Emissions

Permit Unit	CAS No.	Emittents	MHU	MHC	MAC
			(lbs/hr)	(lbs/hr)	(lbs/yr)
	822060	Hexamethylene diisocyanate	0.002	0.002	1.41

Process Mass Balance - Amerlock Resin (Part A)

Permit Unit	CAS No.	Emitments	Type	Mixture Specification SDS Content			Uncontrolled Rates			Controlled Rates			An. Avg. g/sec	Hr. Max. g/sec	
				Wt. %	sp gr	g/l	lb/hr	lb/day	lb/yr	lb/hr	lb/day	lb/yr			
	68515491	1,2-Benzenedicarboxylic acid, branched, alkyl, esters	VOC	1.00%	1.50	15.0	0.125	0.070	0.28	56.3	0.070	0.28	56.3	---	---
	64742956	Naphtha	VOC	1.00%	1.50	15.0	0.125	0.070	0.28	56.3	0.070	0.28	56.3	---	---
	95636	1,2,4-trimethylbenzene	VOC TAC	1.00%	1.50	15.0	0.125	0.070	0.28	56.3	0.070	0.28	56.3	8.10E-04	8.87E-03
	1330207	Xylene	VOC TAC	0.10%	1.50	1.5	0.013	0.007	0.03	5.6	0.007	0.03	5.6	8.10E-05	8.87E-04
	25068386	Epoxy resin	Inert	36.90%	1.50	553.5	4.616	2.597	10.39	2,077.3	2.597	10.39	2,077.3	---	---
	43104	Volatle Organic Compounds (VOC)	VOC	3.10%	1.500	46.5	0.388	0.218	0.87	174.5	0.218	0.87	174.5	---	---
	85101	Other (as max solids for PM LST)	PM LST	60.00%	1.500	900.0	7.506	4.222	16.89	3,377.7	0.148	0.59	118.2	1.70E-03	1.86E-02

Operating Schedule			Material Usage			PM TE	PM TCE	VOC CE	TACS
hrs/day	days/mo	mos/yr	gal/hr	gal/day	gal/yr	percent	percent	percent	g/sec
4	16.67	12	0.563	2.25	450	65.0%	90.0%	0.0%	9.75E-03

Criteria Emissions

Permit Unit	CAS No.	Emitments	AHU (lbs/hr)	AHC (lbs/hr)	MHU (lbs/hr)	MHC (lbs/hr)	MDU (lbs/day)	MDC (lbs/day)	AA (lbs/yr)	30DA (lbs/day)
	43104	Volatle Organic Compounds (VOC)	0.02	0.02	0.22	0.22	0.87	0.87	174.51	0.48
	85101	Particulate Matter 10 Microns or Less	0.39	0.01	4.22	0.15	16.89	0.59	118.22	0.33

TAC Emissions

Permit Unit	CAS No.	Emitments	MHU (lbs/hr)	MHC (lbs/hr)	MAC (lbs/yr)
	95636	1,2,4-trimethylbenzene	0.070	0.070	56.3
	1330207	Xylene	0.007	0.007	5.6

Part A + Part B Mix (3:1)

Part Fraction	Part, g/l	Mix, g/l	lb/gal
Resin A 75%	46.5	34.9	0.29
Hardener B 25%	221.2	55.3	0.46
Applied A + B 100%	Rule 1151(d)(1) Any Other Coating Type (250 g/l)	90.2	0.75

Paint Solids Ranges

Paint Type	Volume Solids
Sealers	10-25%
Architectural Paints **	35-45%
Industrial Enamels	25-45%
2K Epoxies	40-80%
2K Polyurethanes	30-45%

Source: <http://carbit.com/understanding-volume-solids/>

Process Mass Balance - Amerlock Hardener (Part B)

Permit Unit	CAS No.	Emittents	Type	Mixture Specification SDS Content			Uncontrolled Rates			Controlled Rates			An. Avg. g/sec	Hr. Max. g/sec
				Wt. %	sp gr	g/l	lb/gal	lb/hr	lb/day	lb/yr	lb/hr	lb/day		
	84852153	4-nonylphenol	VOC	5.00%	1.40	70.0	0.584	0.109	0.44	87.6	0.44	87.6	---	---
	68515491	1,2-Benzenedicarboxylic acid, branched, alkyl, esters	VOC	1.00%	1.40	14.0	0.117	0.022	0.09	17.5	0.022	0.09	17.5	---
	100516	Benzyl alcohol	VOC	1.00%	1.40	14.0	0.117	0.022	0.09	17.5	0.022	0.09	17.5	---
	1330207	Xylene	VOC TAC	7.00%	1.40	98.0	0.817	0.153	0.61	122.6	0.153	122.6	1.76E-03	1.93E-02
	100414	Ethylbenzene	VOC TAC	1.00%	1.40	14.0	0.117	0.022	0.09	17.5	0.022	0.09	17.5	2.52E-04
	108952	Phenol	VOC TAC	0.50%	1.40	7.0	0.058	0.011	0.04	8.8	0.011	0.04	8.8	1.26E-04
	64175	Ethanol	VOC	0.10%	1.40	1.4	0.012	0.002	0.01	1.8	0.002	0.01	1.8	---
	112243	3,6-diazaoctanethylenediamin	VOC	0.10%	1.40	1.4	0.012	0.002	0.01	1.8	0.002	0.01	1.8	---
	91672412	Phenol, 2-nonyl, branched	VOC	0.10%	1.40	1.4	0.012	0.002	0.01	1.8	0.002	0.01	1.8	---
	43104	Volatile Organic Compounds (VOC)	VOC	15.80%	1.40	221.2	1.845	0.346	1.38	276.7	0.346	276.7	---	---
	85101	Other (as max solids for PM LST)	PM LST	84.20%	1.40	1178.8	9.831	1.843	7.37	1,474.7	0.065	51.6	7.42E-04	8.13E-03

Operating Schedule				Material Usage				PM TE		PM CE		PM TCE		VOC CE		TACs	
hrs/day	days/mo	mos/yr	gal/hr	gal/day	gal/yr	PM TE percent	PM CE percent	PM TCE percent	VOC CE percent	TACs g/sec							
4	16.67	12	0.188	0.75	150	65.0%	90.0%	96.5%	0.0%	2.34E-02							

Criteria Emissions

Permit Unit	CAS No.	Emittents	AHU	AHC	MHU	MHC	MDU	MDC	AA	30DA
			(lbs/hr)	(lbs/hr)	(lbs/hr)	(lbs/hr)	(lbs/day)	(lbs/yr)	(lbs/day)	(lbs/day)
	43104	Volatile Organic Compounds (VOC)	0.03	0.03	0.35	0.35	1.38	1.38	276.72	0.77
	85101	Particulate Matter 10 Microns or Less	0.17	0.01	1.84	0.06	7.37	0.26	51.61	0.14

TAC Emissions

Permit Unit	CAS No.	Emittents	MHU	MHC	MAC
			(lbs/hr)	(lbs/hr)	(lbs/yr)
	1330207	Xylene	0.153	0.153	122.6
	100414	Ethylbenzene	0.022	0.022	17.5
	108952	Phenol	0.011	0.011	8.8