

IS/MND Appendix A

Air Quality and Greenhouse Gas
Emissions Model Outputs

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

East County Advanced Water Purification - Construction

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Updated general construction schedule for Packages 1-4.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - Updated equipment scenario.

Trips and VMT - Worker trips calculated based on typical CalEEMod assumption of 1.25 workers per each piece of equipment, and two trips per worker.
Vendor trips and haul truck trips based on 2018 modeling.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	0.00	782.00
tblConstructionPhase	NumDays	0.00	260.00
tblConstructionPhase	NumDays	0.00	390.00
tblConstructionPhase	NumDays	0.00	652.00
tblConstructionPhase	NumDays	0.00	217.00
tblConstructionPhase	NumDays	0.00	218.00
tblConstructionPhase	NumDays	0.00	217.00
tblConstructionPhase	NumDays	0.00	370.00
tblConstructionPhase	NumDays	0.00	262.00
tblConstructionPhase	NumDays	0.00	260.00
tblOnRoadDust	PhaseName	P3 - EMGFM and RBS Pipeline	P3 - WRFFM and RBS Pipeline
tblTripsAndVMT	HaulingTripNumber	0.00	9,052.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,038.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,400.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,948.00
tblTripsAndVMT	HaulingTripNumber	0.00	35.00
tblTripsAndVMT	HaulingTripNumber	0.00	49.00
tblTripsAndVMT	HaulingTripNumber	0.00	175.00
tblTripsAndVMT	PhaseName	P3 - EMGFM and RBS Pipeline	P3 - WRFFM and RBS Pipeline
tblTripsAndVMT	VendorTripNumber	0.00	45.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tbITripsAndVMT	VendorTripNumber	0.00	5.00
tbITripsAndVMT	VendorTripNumber	0.00	10.00
tbITripsAndVMT	VendorTripNumber	0.00	3.00
tbITripsAndVMT	VendorTripNumber	0.00	3.00
tbITripsAndVMT	VendorTripNumber	0.00	4.00
tbITripsAndVMT	VendorTripNumber	0.00	5.00
tbITripsAndVMT	VendorTripNumber	0.00	4.00
tbITripsAndVMT	WorkerTripNumber	0.00	73.00
tbITripsAndVMT	WorkerTripNumber	0.00	23.00
tbITripsAndVMT	WorkerTripNumber	0.00	53.00
tbITripsAndVMT	WorkerTripNumber	0.00	35.00
tbITripsAndVMT	WorkerTripNumber	0.00	10.00
tbITripsAndVMT	WorkerTripNumber	0.00	10.00
tbITripsAndVMT	WorkerTripNumber	0.00	25.00
tbITripsAndVMT	WorkerTripNumber	0.00	45.00
tbITripsAndVMT	WorkerTripNumber	0.00	15.00
tbITripsAndVMT	WorkerTripNumber	0.00	40.00

2.0 Emissions Summary

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	15.6399	148.9484	153.6995	0.3204	2.2659	6.8208	9.0867	0.6148	6.4483	7.0631	0.0000	31,191.3564	31,191.3564	6.4863	0.5736	31,524.4409
2023	17.3693	163.9218	186.2594	0.3859	2.7648	7.2053	9.9701	0.7498	6.7895	7.5392	0.0000	37,565.7245	37,565.7245	8.1597	0.6220	37,955.0853
2024	17.0566	158.3813	191.1144	0.4001	2.7692	6.6945	9.4637	0.7501	6.3072	7.0574	0.0000	38,924.5094	38,924.5094	8.4556	0.5929	39,312.5854
2025	17.9229	153.4337	203.7809	0.4502	2.5725	6.1235	8.6960	0.6952	5.7844	6.4795	0.0000	43,624.4606	43,624.4606	9.6831	0.4485	44,000.1820
Maximum	17.9229	163.9218	203.7809	0.4502	2.7692	7.2053	9.9701	0.7501	6.7895	7.5392	0.0000	43,624.4606	43,624.4606	9.6831	0.6220	44,000.1820

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-005	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-005	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	P1 - WRF, SHERF, AWTP, Pond C	Building Construction	6/1/2022	5/29/2025	5	782	
2	P2 - AWP Pipeline and Lake Jennings Inlet	Building Construction	10/3/2022	3/29/2024	5	390	
3	P3 - WRF and RBS Pipeline	Building Construction	8/1/2022	1/28/2025	5	652	
4	P3 - Influent Pump Station	Building Construction	1/2/2023	10/31/2023	5	217	
5	P3 - EMG Pump Station	Building Construction	4/3/2023	1/31/2024	5	218	
6	P2 - Dechlorination Station	Building Construction	7/3/2023	4/30/2024	5	217	
7	P4 - Triple and Dual Alignments	Building Construction	8/1/2024	12/31/2025	5	370	
8	P3 - RBS Lift Station	Building Construction	1/1/2024	12/31/2024	5	262	
9	P4 - RBL Extension	Building Construction	1/2/2025	12/31/2025	5	260	
10	P4 - Mission Valley Lift Station	Building Construction	1/2/2025	12/31/2025	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
P1 - WRF, SHERF, AWTP, Pond C	Air Compressors	2	6.00	78	0.48

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

P1 - WRF, SHERF, AWTP, Pond C	Cranes	2	4.00	231	0.29
P1 - WRF, SHERF, AWTP, Pond C	Excavators	2	8.00	158	0.38
P1 - WRF, SHERF, AWTP, Pond C	Forklifts	2	6.00	89	0.20
P1 - WRF, SHERF, AWTP, Pond C	Generator Sets	3	8.00	84	0.74
P1 - WRF, SHERF, AWTP, Pond C	Off-Highway Trucks	1	8.00	402	0.38
P1 - WRF, SHERF, AWTP, Pond C	Pavers	1	6.00	130	0.42
P1 - WRF, SHERF, AWTP, Pond C	Plate Compactors	2	6.00	8	0.43
P1 - WRF, SHERF, AWTP, Pond C	Pumps	3	8.00	84	0.74
P1 - WRF, SHERF, AWTP, Pond C	Rollers	2	6.00	80	0.38
P1 - WRF, SHERF, AWTP, Pond C	Rubber Tired Dozers	2	8.00	247	0.40
P1 - WRF, SHERF, AWTP, Pond C	Scrapers	2	8.00	367	0.48
P1 - WRF, SHERF, AWTP, Pond C	Skid Steer Loaders	1	8.00	65	0.37
P1 - WRF, SHERF, AWTP, Pond C	Tractors/Loaders/Backhoes	4	8.00	97	0.37
P2 - AWP Pipeline and Lake Jennings Inlet	Bore/Drill Rigs	1	8.00	221	0.50
P2 - AWP Pipeline and Lake Jennings Inlet	Concrete/Industrial Saws	1	8.00	81	0.73
P2 - AWP Pipeline and Lake Jennings Inlet	Cranes	1	4.00	231	0.29
P2 - AWP Pipeline and Lake Jennings Inlet	Excavators	3	8.00	158	0.38
P2 - AWP Pipeline and Lake Jennings Inlet	Forklifts	1	6.00	89	0.20
P2 - AWP Pipeline and Lake Jennings Inlet	Generator Sets	1	8.00	84	0.74
P2 - AWP Pipeline and Lake Jennings Inlet	Paving Equipment	1	6.00	132	0.36
P2 - AWP Pipeline and Lake Jennings Inlet	Pumps	1	8.00	84	0.74
P2 - AWP Pipeline and Lake Jennings Inlet	Rollers	5	6.00	80	0.38
P2 - AWP Pipeline and Lake Jennings Inlet	Skid Steer Loaders	2	8.00	65	0.37
P2 - AWP Pipeline and Lake Jennings Inlet	Sweepers/Scrubbers	1	6.00	64	0.46
P2 - AWP Pipeline and Lake Jennings Inlet	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P2 - AWP Pipeline and Lake Jennings Inlet	Welders	1	8.00	46	0.45

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

P4 - Triple and Dual Alignments	Bore/Drill Rigs	1	8.00	221	0.50
P4 - Triple and Dual Alignments	Concrete/Industrial Saws	1	8.00	81	0.73
P4 - Triple and Dual Alignments	Cranes	1	4.00	231	0.29
P4 - Triple and Dual Alignments	Excavators	2	8.00	158	0.38
P4 - Triple and Dual Alignments	Generator Sets	1	8.00	84	0.74
P4 - Triple and Dual Alignments	Off-Highway Trucks	2	8.00	402	0.38
P4 - Triple and Dual Alignments	Pavers	1	6.00	130	0.42
P4 - Triple and Dual Alignments	Plate Compactors	1	6.00	8	0.43
P4 - Triple and Dual Alignments	Pumps	1	8.00	84	0.74
P4 - Triple and Dual Alignments	Rollers	2	6.00	80	0.38
P4 - Triple and Dual Alignments	Rubber Tired Loaders	1	8.00	203	0.36
P4 - Triple and Dual Alignments	Skid Steer Loaders	1	8.00	65	0.37
P4 - Triple and Dual Alignments	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P4 - Triple and Dual Alignments	Welders	1	8.00	46	0.45
P2 - Dechlorination Station	Cranes	1	4.00	231	0.29
P2 - Dechlorination Station	Excavators	1	8.00	158	0.38
P2 - Dechlorination Station	Generator Sets	1	8.00	84	0.74
P2 - Dechlorination Station	Graders	1	8.00	187	0.41
P2 - Dechlorination Station	Pavers	1	6.00	130	0.42
P2 - Dechlorination Station	Plate Compactors	1	6.00	8	0.43
P2 - Dechlorination Station	Rollers	1	6.00	80	0.38
P2 - Dechlorination Station	Skid Steer Loaders	1	8.00	65	0.37
P2 - Dechlorination Station	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P3 - EMG Pump Station	Cranes	1	4.00	231	0.29
P3 - EMG Pump Station	Excavators	1	8.00	158	0.38
P3 - EMG Pump Station	Forklifts	1	6.00	89	0.20
P3 - EMG Pump Station	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P3 - WRFFM and RBS Pipeline	Bore/Drill Rigs	1	8.00	221	0.50
P3 - WRFFM and RBS Pipeline	Concrete/Industrial Saws	1	8.00	81	0.73

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

P3 - WRFFM and RBS Pipeline	Cranes	1	4.00	231	0.29
P3 - WRFFM and RBS Pipeline	Excavators	1	8.00	158	0.38
P3 - WRFFM and RBS Pipeline	Generator Sets	1	8.00	84	0.74
P3 - WRFFM and RBS Pipeline	Pavers	1	6.00	130	0.42
P3 - WRFFM and RBS Pipeline	Plate Compactors	1	6.00	8	0.43
P3 - WRFFM and RBS Pipeline	Pumps	1	8.00	84	0.74
P3 - WRFFM and RBS Pipeline	Rollers	1	6.00	80	0.38
P3 - WRFFM and RBS Pipeline	Skid Steer Loaders	1	8.00	65	0.37
P3 - WRFFM and RBS Pipeline	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P3 - WRFFM and RBS Pipeline	Welders	1	8.00	46	0.45
P3 - Influent Pump Station	Cranes	1	4.00	231	0.29
P3 - Influent Pump Station	Excavators	1	8.00	158	0.38
P3 - Influent Pump Station	Forklifts	1	6.00	89	0.20
P3 - Influent Pump Station	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P4 - RBL Extension		0			
P4 - RBL Extension	Bore/Drill Rigs	1	8.00	221	0.50
P4 - RBL Extension	Concrete/Industrial Saws	1	8.00	81	0.73
P4 - RBL Extension	Cranes	1	4.00	231	0.29
P4 - RBL Extension	Excavators	2	8.00	158	0.38
P4 - RBL Extension	Forklifts	1	6.00	89	0.20
P4 - RBL Extension	Generator Sets	1	8.00	84	0.74
P4 - RBL Extension	Off-Highway Trucks	1	8.00	402	0.38
P4 - RBL Extension	Pavers	1	6.00	130	0.42
P4 - RBL Extension	Plate Compactors	1	6.00	8	0.43
P4 - RBL Extension	Pumps	1	8.00	84	0.74
P4 - RBL Extension	Rollers	1	6.00	80	0.38
P4 - RBL Extension	Skid Steer Loaders	1	8.00	65	0.37
P4 - RBL Extension	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P4 - Mission Valley Lift Station	Concrete/Industrial Saws	1	8.00	81	0.73

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

P4 - Mission Valley Lift Station	Cranes	1	4.00	231	0.29
P4 - Mission Valley Lift Station	Excavators	2	8.00	158	0.38
P4 - Mission Valley Lift Station	Forklifts	1	6.00	89	0.20
P4 - Mission Valley Lift Station	Generator Sets	1	8.00	84	0.74
P4 - Mission Valley Lift Station	Off-Highway Trucks	1	8.00	402	0.38
P4 - Mission Valley Lift Station	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P3 - RBS Lift Station	Bore/Drill Rigs	1	8.00	221	0.50
P3 - RBS Lift Station	Cranes	1	4.00	231	0.29
P3 - RBS Lift Station	Excavators	1	8.00	158	0.38
P3 - RBS Lift Station	Forklifts	1	6.00	89	0.20
P3 - RBS Lift Station	Generator Sets	1	8.00	84	0.74
P3 - RBS Lift Station	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
P1 - WRF, SHERF, AWTP, Pond C	29	73.00	45.00	9,052.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 - AWP Pipeline and Lake Jennings Inl	21	53.00	8.00	5,400.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 - Triple and Dual Alignments	18	45.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 - Dechlorination Station	10	25.00	3.00	175.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 - EMG Pump Station	4	10.00	3.00	49.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 - WRFFM and RBS Pipeline	13	35.00	5.00	3,948.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 - Influent Pump Station	4	10.00	10.00	35.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 - RBL Extension	15	40.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 - Mission Valley Lift Station	9	23.00	4.00	1,038.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 - RBS Lift Station	6	15.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	8.4373	81.4879	74.8663	0.1472		3.8341	3.8341		3.6143	3.6143		14,135.3198	14,135.3198	3.3901		14,220.0712
Total	8.4373	81.4879	74.8663	0.1472		3.8341	3.8341		3.6143	3.6143		14,135.3198	14,135.3198	3.3901		14,220.0712

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0506	1.9506	0.4639	7.2700e-003	0.2025	0.0181	0.2206	0.0555	0.0174	0.0729		799.9932	799.9932	0.0384	0.1271	838.8247
Vendor	0.0994	2.4834	0.8253	9.6000e-003	0.3048	0.0261	0.3309	0.0877	0.0250	0.1127		1,034.7462	1,034.7462	0.0313	0.1503	1,080.3272
Worker	0.2305	0.1560	1.7946	5.1700e-003	0.5997	3.4000e-003	0.6031	0.1591	3.1300e-003	0.1622		526.0173	526.0173	0.0170	0.0155	531.0686
Total	0.3804	4.5900	3.0838	0.0220	1.1069	0.0476	1.1545	0.3023	0.0455	0.3477		2,360.7567	2,360.7567	0.0867	0.2930	2,450.2206

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	8.4373	81.4879	74.8663	0.1472		3.8341	3.8341		3.6143	3.6143	0.0000	14,135.3198	14,135.3198	3.3901		14,220.0712
Total	8.4373	81.4879	74.8663	0.1472		3.8341	3.8341		3.6143	3.6143	0.0000	14,135.3198	14,135.3198	3.3901		14,220.0712

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0506	1.9506	0.4639	7.2700e-003	0.2025	0.0181	0.2206	0.0555	0.0174	0.0729		799.9932	799.9932	0.0384	0.1271	838.8247
Vendor	0.0994	2.4834	0.8253	9.6000e-003	0.3048	0.0261	0.3309	0.0877	0.0250	0.1127		1,034.7462	1,034.7462	0.0313	0.1503	1,080.3272
Worker	0.2305	0.1560	1.7946	5.1700e-003	0.5997	3.4000e-003	0.6031	0.1591	3.1300e-003	0.1622		526.0173	526.0173	0.0170	0.0155	531.0686
Total	0.3804	4.5900	3.0838	0.0220	1.1069	0.0476	1.1545	0.3023	0.0455	0.3477		2,360.7567	2,360.7567	0.0867	0.2930	2,450.2206

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.7189	72.9642	73.2156	0.1472		3.2978	3.2978		3.1096	3.1096		14,137.4136	14,137.4136	3.3713		14,221.6965
Total	7.7189	72.9642	73.2156	0.1472		3.2978	3.2978		3.1096	3.1096		14,137.4136	14,137.4136	3.3713		14,221.6965

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.5753	0.4212	6.9300e-003	0.2025	0.0129	0.2153	0.0555	0.0123	0.0678		766.2019	766.2019	0.0385	0.1219	803.4756
Vendor	0.0523	2.0102	0.7162	9.2300e-003	0.3048	0.0118	0.3166	0.0877	0.0113	0.0990		996.1255	996.1255	0.0300	0.1444	1,039.8958
Worker	0.2165	0.1394	1.6692	5.0100e-003	0.5997	3.2300e-003	0.6029	0.1591	2.9700e-003	0.1620		512.4748	512.4748	0.0155	0.0144	517.1643
Total	0.2934	3.7249	2.8066	0.0212	1.1069	0.0279	1.1348	0.3023	0.0266	0.3289		2,274.8022	2,274.8022	0.0839	0.2807	2,360.5357

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.7189	72.9642	73.2156	0.1472		3.2978	3.2978		3.1096	3.1096	0.0000	14,137.4136	14,137.4136	3.3713		14,221.6965
Total	7.7189	72.9642	73.2156	0.1472		3.2978	3.2978		3.1096	3.1096	0.0000	14,137.4136	14,137.4136	3.3713		14,221.6965

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.5753	0.4212	6.9300e-003	0.2025	0.0129	0.2153	0.0555	0.0123	0.0678		766.2019	766.2019	0.0385	0.1219	803.4756
Vendor	0.0523	2.0102	0.7162	9.2300e-003	0.3048	0.0118	0.3166	0.0877	0.0113	0.0990		996.1255	996.1255	0.0300	0.1444	1,039.8958
Worker	0.2165	0.1394	1.6692	5.0100e-003	0.5997	3.2300e-003	0.6029	0.1591	2.9700e-003	0.1620		512.4748	512.4748	0.0155	0.0144	517.1643
Total	0.2934	3.7249	2.8066	0.0212	1.1069	0.0279	1.1348	0.3023	0.0266	0.3289		2,274.8022	2,274.8022	0.0839	0.2807	2,360.5357

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.4296	69.0060	72.8189	0.1472		3.0260	3.0260		2.8496	2.8496		14,136.9397	14,136.9397	3.3593		14,220.9226
Total	7.4296	69.0060	72.8189	0.1472		3.0260	3.0260		2.8496	2.8496		14,136.9397	14,136.9397	3.3593		14,220.9226

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0243	1.5617	0.4269	6.7900e-003	0.2025	0.0130	0.2154	0.0555	0.0124	0.0679		752.7269	752.7269	0.0397	0.1198	789.4180
Vendor	0.0502	1.9967	0.6998	9.0500e-003	0.3048	0.0119	0.3166	0.0877	0.0114	0.0991		978.7981	978.7981	0.0307	0.1418	1,021.8323
Worker	0.2038	0.1254	1.5629	4.8400e-003	0.5997	3.0800e-003	0.6028	0.1591	2.8300e-003	0.1619		499.6418	499.6418	0.0141	0.0135	504.0147
Total	0.2784	3.6838	2.6897	0.0207	1.1069	0.0279	1.1348	0.3023	0.0266	0.3289		2,231.1668	2,231.1668	0.0844	0.2751	2,315.2649

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.4296	69.0060	72.8189	0.1472		3.0260	3.0260		2.8496	2.8496	0.0000	14,136.9397	14,136.9397	3.3593		14,220.9226
Total	7.4296	69.0060	72.8189	0.1472		3.0260	3.0260		2.8496	2.8496	0.0000	14,136.9397	14,136.9397	3.3593		14,220.9226

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0243	1.5617	0.4269	6.7900e-003	0.2025	0.0130	0.2154	0.0555	0.0124	0.0679		752.7269	752.7269	0.0397	0.1198	789.4180
Vendor	0.0502	1.9967	0.6998	9.0500e-003	0.3048	0.0119	0.3166	0.0877	0.0114	0.0991		978.7981	978.7981	0.0307	0.1418	1,021.8323
Worker	0.2038	0.1254	1.5629	4.8400e-003	0.5997	3.0800e-003	0.6028	0.1591	2.8300e-003	0.1619		499.6418	499.6418	0.0141	0.0135	504.0147
Total	0.2784	3.6838	2.6897	0.0207	1.1069	0.0279	1.1348	0.3023	0.0266	0.3289		2,231.1668	2,231.1668	0.0844	0.2751	2,315.2649

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.8778	62.3261	71.1964	0.1472		2.6157	2.6157		2.4629	2.4629		14,135.2969	14,135.2969	3.3446		14,218.9129
Total	6.8778	62.3261	71.1964	0.1472		2.6157	2.6157		2.4629	2.4629		14,135.2969	14,135.2969	3.3446		14,218.9129

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0240	1.5407	0.4329	6.6400e-003	0.2025	0.0129	0.2154	0.0555	0.0123	0.0678		737.4721	737.4721	0.0409	0.1175	773.4988
Vendor	0.0485	1.9773	0.6883	8.8700e-003	0.3048	0.0118	0.3166	0.0877	0.0113	0.0991		960.1597	960.1597	0.0315	0.1391	1,002.3858
Worker	0.1925	0.1136	1.4685	4.6800e-003	0.5997	2.9400e-003	0.6026	0.1591	2.7100e-003	0.1618		487.4466	487.4466	0.0129	0.0127	491.5416
Total	0.2650	3.6315	2.5897	0.0202	1.1069	0.0277	1.1346	0.3023	0.0264	0.3287		2,185.0784	2,185.0784	0.0853	0.2692	2,267.4262

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.8778	62.3261	71.1964	0.1472		2.6157	2.6157		2.4629	2.4629	0.0000	14,135.2969	14,135.2969	3.3446		14,218.9129
Total	6.8778	62.3261	71.1964	0.1472		2.6157	2.6157		2.4629	2.4629	0.0000	14,135.2969	14,135.2969	3.3446		14,218.9129

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0240	1.5407	0.4329	6.6400e-003	0.2025	0.0129	0.2154	0.0555	0.0123	0.0678		737.4721	737.4721	0.0409	0.1175	773.4988
Vendor	0.0485	1.9773	0.6883	8.8700e-003	0.3048	0.0118	0.3166	0.0877	0.0113	0.0991		960.1597	960.1597	0.0315	0.1391	1,002.3858
Worker	0.1925	0.1136	1.4685	4.6800e-003	0.5997	2.9400e-003	0.6026	0.1591	2.7100e-003	0.1618		487.4466	487.4466	0.0129	0.0127	491.5416
Total	0.2650	3.6315	2.5897	0.0202	1.1069	0.0277	1.1346	0.3023	0.0264	0.3287		2,185.0784	2,185.0784	0.0853	0.2692	2,267.4262

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7903	34.9778	43.9601	0.0761		1.7626	1.7626		1.6629	1.6629		7,286.8898	7,286.8898	1.8135		7,332.2270
Total	3.7903	34.9778	43.9601	0.0761		1.7626	1.7626		1.6629	1.6629		7,286.8898	7,286.8898	1.8135		7,332.2270

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0605	2.3332	0.5550	8.6900e-003	0.2422	0.0217	0.2639	0.0664	0.0208	0.0871		956.9244	956.9244	0.0459	0.1520	1,003.3734
Vendor	0.0177	0.4415	0.1467	1.7100e-003	0.0542	4.6400e-003	0.0588	0.0156	4.4400e-003	0.0200		183.9549	183.9549	5.5700e-003	0.0267	192.0582
Worker	0.1674	0.1133	1.3029	3.7500e-003	0.4354	2.4700e-003	0.4379	0.1155	2.2700e-003	0.1178		381.9030	381.9030	0.0123	0.0113	385.5703
Total	0.2455	2.8880	2.0046	0.0142	0.7317	0.0288	0.7605	0.1975	0.0275	0.2249		1,522.7823	1,522.7823	0.0638	0.1900	1,581.0019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7903	34.9778	43.9601	0.0761		1.7626	1.7626		1.6629	1.6629	0.0000	7,286.8898	7,286.8898	1.8135		7,332.2270
Total	3.7903	34.9778	43.9601	0.0761		1.7626	1.7626		1.6629	1.6629	0.0000	7,286.8898	7,286.8898	1.8135		7,332.2270

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0605	2.3332	0.5550	8.6900e-003	0.2422	0.0217	0.2639	0.0664	0.0208	0.0871		956.9244	956.9244	0.0459	0.1520	1,003.3734
Vendor	0.0177	0.4415	0.1467	1.7100e-003	0.0542	4.6400e-003	0.0588	0.0156	4.4400e-003	0.0200		183.9549	183.9549	5.5700e-003	0.0267	192.0582
Worker	0.1674	0.1133	1.3029	3.7500e-003	0.4354	2.4700e-003	0.4379	0.1155	2.2700e-003	0.1178		381.9030	381.9030	0.0123	0.0113	385.5703
Total	0.2455	2.8880	2.0046	0.0142	0.7317	0.0288	0.7605	0.1975	0.0275	0.2249		1,522.7823	1,522.7823	0.0638	0.1900	1,581.0019

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5295	32.1064	43.8477	0.0761		1.5465	1.5465		1.4585	1.4585		7,289.8773	7,289.8773	1.8037		7,334.9686
Total	3.5295	32.1064	43.8477	0.0761		1.5465	1.5465		1.4585	1.4585		7,289.8773	7,289.8773	1.8037		7,334.9686

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0295	1.8843	0.5038	8.2900e-003	0.2422	0.0154	0.2576	0.0664	0.0147	0.0811		916.5045	916.5045	0.0460	0.1458	961.0900
Vendor	9.2900e-003	0.3574	0.1273	1.6400e-003	0.0542	2.1000e-003	0.0563	0.0156	2.0100e-003	0.0176		177.0890	177.0890	5.3300e-003	0.0257	184.8704
Worker	0.1572	0.1012	1.2119	3.6400e-003	0.4354	2.3400e-003	0.4377	0.1155	2.1600e-003	0.1176		372.0708	372.0708	0.0112	0.0105	375.4755
Total	0.1959	2.3429	1.8430	0.0136	0.7317	0.0198	0.7516	0.1975	0.0189	0.2164		1,465.6643	1,465.6643	0.0626	0.1819	1,521.4358

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5295	32.1064	43.8477	0.0761		1.5465	1.5465		1.4585	1.4585	0.0000	7,289.8773	7,289.8773	1.8037		7,334.9686
Total	3.5295	32.1064	43.8477	0.0761		1.5465	1.5465		1.4585	1.4585	0.0000	7,289.8773	7,289.8773	1.8037		7,334.9686

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0295	1.8843	0.5038	8.2900e-003	0.2422	0.0154	0.2576	0.0664	0.0147	0.0811		916.5045	916.5045	0.0460	0.1458	961.0900
Vendor	9.2900e-003	0.3574	0.1273	1.6400e-003	0.0542	2.1000e-003	0.0563	0.0156	2.0100e-003	0.0176		177.0890	177.0890	5.3300e-003	0.0257	184.8704
Worker	0.1572	0.1012	1.2119	3.6400e-003	0.4354	2.3400e-003	0.4377	0.1155	2.1600e-003	0.1176		372.0708	372.0708	0.0112	0.0105	375.4755
Total	0.1959	2.3429	1.8430	0.0136	0.7317	0.0198	0.7516	0.1975	0.0189	0.2164		1,465.6643	1,465.6643	0.0626	0.1819	1,521.4358

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3392	30.0367	43.8162	0.0762		1.3833	1.3833		1.3035	1.3035		7,292.9937	7,292.9937	1.7989		7,337.9655
Total	3.3392	30.0367	43.8162	0.0762		1.3833	1.3833		1.3035	1.3035		7,292.9937	7,292.9937	1.7989		7,337.9655

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0291	1.8681	0.5107	8.1300e-003	0.2422	0.0155	0.2577	0.0664	0.0148	0.0812		900.3861	900.3861	0.0474	0.1433	944.2747
Vendor	8.9200e-003	0.3550	0.1244	1.6100e-003	0.0542	2.1100e-003	0.0563	0.0156	2.0200e-003	0.0176		174.0086	174.0086	5.4500e-003	0.0252	181.6591
Worker	0.1480	0.0911	1.1347	3.5200e-003	0.4354	2.2300e-003	0.4376	0.1155	2.0600e-003	0.1175		362.7536	362.7536	0.0102	9.7900e-003	365.9285
Total	0.1860	2.3141	1.7698	0.0133	0.7317	0.0198	0.7516	0.1975	0.0189	0.2164		1,437.1483	1,437.1483	0.0631	0.1783	1,491.8622

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3392	30.0367	43.8162	0.0762		1.3833	1.3833		1.3035	1.3035	0.0000	7,292.9937	7,292.9937	1.7989		7,337.9655
Total	3.3392	30.0367	43.8162	0.0762		1.3833	1.3833		1.3035	1.3035	0.0000	7,292.9937	7,292.9937	1.7989		7,337.9655

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0291	1.8681	0.5107	8.1300e-003	0.2422	0.0155	0.2577	0.0664	0.0148	0.0812		900.3861	900.3861	0.0474	0.1433	944.2747
Vendor	8.9200e-003	0.3550	0.1244	1.6100e-003	0.0542	2.1100e-003	0.0563	0.0156	2.0200e-003	0.0176		174.0086	174.0086	5.4500e-003	0.0252	181.6591
Worker	0.1480	0.0911	1.1347	3.5200e-003	0.4354	2.2300e-003	0.4376	0.1155	2.0600e-003	0.1175		362.7536	362.7536	0.0102	9.7900e-003	365.9285
Total	0.1860	2.3141	1.7698	0.0133	0.7317	0.0198	0.7516	0.1975	0.0189	0.2164		1,437.1483	1,437.1483	0.0631	0.1783	1,491.8622

3.4 P3 - WRFFM and RBS Pipeline - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6384	23.6336	28.5899	0.0536		1.1336	1.1336		1.0849	1.0849		5,099.9528	5,099.9528	1.1005		5,127.4656
Total	2.6384	23.6336	28.5899	0.0536		1.1336	1.1336		1.0849	1.0849		5,099.9528	5,099.9528	1.1005		5,127.4656

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0264	1.0204	0.2427	3.8000e-003	0.1059	9.4900e-003	0.1154	0.0290	9.0800e-003	0.0381		418.4832	418.4832	0.0201	0.0665	438.7963
Vendor	0.0110	0.2759	0.0917	1.0700e-003	0.0339	2.9000e-003	0.0368	9.7500e-003	2.7700e-003	0.0125		114.9718	114.9718	3.4800e-003	0.0167	120.0364
Worker	0.1105	0.0748	0.8604	2.4800e-003	0.2875	1.6300e-003	0.2891	0.0763	1.5000e-003	0.0778		252.2001	252.2001	8.1400e-003	7.4400e-003	254.6219
Total	0.1480	1.3711	1.1948	7.3500e-003	0.4273	0.0140	0.4413	0.1150	0.0134	0.1284		785.6551	785.6551	0.0317	0.0906	813.4546

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6384	23.6336	28.5899	0.0536		1.1336	1.1336		1.0849	1.0849	0.0000	5,099.9528	5,099.9528	1.1005		5,127.4656
Total	2.6384	23.6336	28.5899	0.0536		1.1336	1.1336		1.0849	1.0849	0.0000	5,099.9528	5,099.9528	1.1005		5,127.4656

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0264	1.0204	0.2427	3.8000e-003	0.1059	9.4900e-003	0.1154	0.0290	9.0800e-003	0.0381		418.4832	418.4832	0.0201	0.0665	438.7963
Vendor	0.0110	0.2759	0.0917	1.0700e-003	0.0339	2.9000e-003	0.0368	9.7500e-003	2.7700e-003	0.0125		114.9718	114.9718	3.4800e-003	0.0167	120.0364
Worker	0.1105	0.0748	0.8604	2.4800e-003	0.2875	1.6300e-003	0.2891	0.0763	1.5000e-003	0.0778		252.2001	252.2001	8.1400e-003	7.4400e-003	254.6219
Total	0.1480	1.3711	1.1948	7.3500e-003	0.4273	0.0140	0.4413	0.1150	0.0134	0.1284		785.6551	785.6551	0.0317	0.0906	813.4546

3.4 P3 - WRFM and RBS Pipeline - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4585	21.7134	28.4952	0.0536		0.9891	0.9891		0.9463	0.9463		5,102.6236	5,102.6236	1.0906		5,129.8879
Total	2.4585	21.7134	28.4952	0.0536		0.9891	0.9891		0.9463	0.9463		5,102.6236	5,102.6236	1.0906		5,129.8879

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRRFM and RBS Pipeline - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0129	0.8241	0.2203	3.6300e-003	0.1059	6.7400e-003	0.1126	0.0290	6.4400e-003	0.0355		400.8067	400.8067	0.0201	0.0637	420.3049
Vendor	5.8100e-003	0.2234	0.0796	1.0300e-003	0.0339	1.3100e-003	0.0352	9.7500e-003	1.2600e-003	0.0110		110.6806	110.6806	3.3300e-003	0.0160	115.5440
Worker	0.1038	0.0668	0.8003	2.4000e-003	0.2875	1.5500e-003	0.2891	0.0763	1.4200e-003	0.0777		245.7071	245.7071	7.4100e-003	6.9200e-003	247.9555
Total	0.1225	1.1143	1.1002	7.0600e-003	0.4273	9.6000e-003	0.4369	0.1150	9.1200e-003	0.1242		757.1945	757.1945	0.0309	0.0867	783.8044

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4585	21.7134	28.4952	0.0536		0.9891	0.9891		0.9463	0.9463	0.0000	5,102.6236	5,102.6236	1.0906		5,129.8879
Total	2.4585	21.7134	28.4952	0.0536		0.9891	0.9891		0.9463	0.9463	0.0000	5,102.6236	5,102.6236	1.0906		5,129.8879

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0129	0.8241	0.2203	3.6300e-003	0.1059	6.7400e-003	0.1126	0.0290	6.4400e-003	0.0355		400.8067	400.8067	0.0201	0.0637	420.3049
Vendor	5.8100e-003	0.2234	0.0796	1.0300e-003	0.0339	1.3100e-003	0.0352	9.7500e-003	1.2600e-003	0.0110		110.6806	110.6806	3.3300e-003	0.0160	115.5440
Worker	0.1038	0.0668	0.8003	2.4000e-003	0.2875	1.5500e-003	0.2891	0.0763	1.4200e-003	0.0777		245.7071	245.7071	7.4100e-003	6.9200e-003	247.9555
Total	0.1225	1.1143	1.1002	7.0600e-003	0.4273	9.6000e-003	0.4369	0.1150	9.1200e-003	0.1242		757.1945	757.1945	0.0309	0.0867	783.8044

3.4 P3 - WRFM and RBS Pipeline - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3235	20.3351	28.4590	0.0537		0.8790	0.8790		0.8402	0.8402		5,105.1851	5,105.1851	1.0856		5,132.3253
Total	2.3235	20.3351	28.4590	0.0537		0.8790	0.8790		0.8402	0.8402		5,105.1851	5,105.1851	1.0856		5,132.3253

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0127	0.8170	0.2233	3.5500e-003	0.1059	6.7700e-003	0.1127	0.0290	6.4800e-003	0.0355		393.7578	393.7578	0.0208	0.0627	412.9512
Vendor	5.5700e-003	0.2219	0.0778	1.0100e-003	0.0339	1.3200e-003	0.0352	9.7500e-003	1.2600e-003	0.0110		108.7553	108.7553	3.4100e-003	0.0158	113.5369
Worker	0.0977	0.0601	0.7494	2.3200e-003	0.2875	1.4700e-003	0.2890	0.0763	1.3600e-003	0.0776		239.5543	239.5543	6.7600e-003	6.4700e-003	241.6509
Total	0.1160	1.0989	1.0505	6.8800e-003	0.4273	9.5600e-003	0.4369	0.1150	9.1000e-003	0.1241		742.0674	742.0674	0.0309	0.0849	768.1390

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3235	20.3351	28.4590	0.0537		0.8790	0.8790		0.8402	0.8402	0.0000	5,105.1851	5,105.1851	1.0856		5,132.3253
Total	2.3235	20.3351	28.4590	0.0537		0.8790	0.8790		0.8402	0.8402	0.0000	5,105.1851	5,105.1851	1.0856		5,132.3253

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFFM and RBS Pipeline - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0127	0.8170	0.2233	3.5500e-003	0.1059	6.7700e-003	0.1127	0.0290	6.4800e-003	0.0355		393.7578	393.7578	0.0208	0.0627	412.9512
Vendor	5.5700e-003	0.2219	0.0778	1.0100e-003	0.0339	1.3200e-003	0.0352	9.7500e-003	1.2600e-003	0.0110		108.7553	108.7553	3.4100e-003	0.0158	113.5369
Worker	0.0977	0.0601	0.7494	2.3200e-003	0.2875	1.4700e-003	0.2890	0.0763	1.3600e-003	0.0776		239.5543	239.5543	6.7600e-003	6.4700e-003	241.6509
Total	0.1160	1.0989	1.0505	6.8800e-003	0.4273	9.5600e-003	0.4369	0.1150	9.1000e-003	0.1241		742.0674	742.0674	0.0309	0.0849	768.1390

3.4 P3 - WRFFM and RBS Pipeline - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1870	19.0243	28.3885	0.0537		0.7680	0.7680		0.7335	0.7335		5,105.4513	5,105.4513	1.0778		5,132.3955
Total	2.1870	19.0243	28.3885	0.0537		0.7680	0.7680		0.7335	0.7335		5,105.4513	5,105.4513	1.0778		5,132.3955

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0126	0.8059	0.2265	3.4700e-003	0.1059	6.7500e-003	0.1127	0.0290	6.4600e-003	0.0355		385.7779	385.7779	0.0214	0.0615	404.6238
Vendor	5.3900e-003	0.2197	0.0765	9.9000e-004	0.0339	1.3100e-003	0.0352	9.7500e-003	1.2600e-003	0.0110		106.6844	106.6844	3.5000e-003	0.0155	111.3762
Worker	0.0923	0.0545	0.7041	2.2400e-003	0.2875	1.4100e-003	0.2889	0.0763	1.3000e-003	0.0776		233.7073	233.7073	6.1700e-003	6.0700e-003	235.6706
Total	0.1103	1.0801	1.0070	6.7000e-003	0.4273	9.4700e-003	0.4368	0.1150	9.0200e-003	0.1241		726.1696	726.1696	0.0311	0.0830	751.6706

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1870	19.0243	28.3885	0.0537		0.7680	0.7680		0.7335	0.7335	0.0000	5,105.4513	5,105.4513	1.0778		5,132.3955
Total	2.1870	19.0243	28.3885	0.0537		0.7680	0.7680		0.7335	0.7335	0.0000	5,105.4513	5,105.4513	1.0778		5,132.3955

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0126	0.8059	0.2265	3.4700e-003	0.1059	6.7500e-003	0.1127	0.0290	6.4600e-003	0.0355		385.7779	385.7779	0.0214	0.0615	404.6238
Vendor	5.3900e-003	0.2197	0.0765	9.9000e-004	0.0339	1.3100e-003	0.0352	9.7500e-003	1.2600e-003	0.0110		106.6844	106.6844	3.5000e-003	0.0155	111.3762
Worker	0.0923	0.0545	0.7041	2.2400e-003	0.2875	1.4100e-003	0.2889	0.0763	1.3000e-003	0.0776		233.7073	233.7073	6.1700e-003	6.0700e-003	235.6706
Total	0.1103	1.0801	1.0070	6.7000e-003	0.4273	9.4700e-003	0.4368	0.1150	9.0200e-003	0.1241		726.1696	726.1696	0.0311	0.0830	751.6706

3.5 P3 - Influent Pump Station - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5927	5.7118	7.2649	0.0123		0.2758	0.2758		0.2537	0.2537		1,192.1149	1,192.1149	0.3856		1,201.7537
Total	0.5927	5.7118	7.2649	0.0123		0.2758	0.2758		0.2537	0.2537		1,192.1149	1,192.1149	0.3856		1,201.7537

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 P3 - Influent Pump Station - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0220	5.8700e-003	1.0000e-004	2.8200e-003	1.8000e-004	3.0000e-003	7.7000e-004	1.7000e-004	9.4000e-004		10.6761	10.6761	5.4000e-004	1.7000e-003	11.1955
Vendor	0.0116	0.4467	0.1592	2.0500e-003	0.0677	2.6200e-003	0.0704	0.0195	2.5100e-003	0.0220		221.3612	221.3612	6.6700e-003	0.0321	231.0880
Worker	0.0297	0.0191	0.2287	6.9000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		70.2020	70.2020	2.1200e-003	1.9800e-003	70.8444
Total	0.0416	0.4878	0.3937	2.8400e-003	0.1527	3.2400e-003	0.1559	0.0421	3.0900e-003	0.0452		302.2394	302.2394	9.3300e-003	0.0358	313.1279

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5927	5.7118	7.2649	0.0123		0.2758	0.2758		0.2537	0.2537	0.0000	1,192.1149	1,192.1149	0.3856		1,201.7537
Total	0.5927	5.7118	7.2649	0.0123		0.2758	0.2758		0.2537	0.2537	0.0000	1,192.1149	1,192.1149	0.3856		1,201.7537

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 P3 - Influent Pump Station - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0220	5.8700e-003	1.0000e-004	2.8200e-003	1.8000e-004	3.0000e-003	7.7000e-004	1.7000e-004	9.4000e-004		10.6761	10.6761	5.4000e-004	1.7000e-003	11.1955
Vendor	0.0116	0.4467	0.1592	2.0500e-003	0.0677	2.6200e-003	0.0704	0.0195	2.5100e-003	0.0220		221.3612	221.3612	6.6700e-003	0.0321	231.0880
Worker	0.0297	0.0191	0.2287	6.9000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		70.2020	70.2020	2.1200e-003	1.9800e-003	70.8444
Total	0.0416	0.4878	0.3937	2.8400e-003	0.1527	3.2400e-003	0.1559	0.0421	3.0900e-003	0.0452		302.2394	302.2394	9.3300e-003	0.0358	313.1279

3.6 P3 - EMG Pump Station - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5927	5.7118	7.2649	0.0123		0.2758	0.2758		0.2537	0.2537		1,192.1149	1,192.1149	0.3856		1,201.7537
Total	0.5927	5.7118	7.2649	0.0123		0.2758	0.2758		0.2537	0.2537		1,192.1149	1,192.1149	0.3856		1,201.7537

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 P3 - EMG Pump Station - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.8000e-004	0.0306	8.1800e-003	1.3000e-004	3.9300e-003	2.5000e-004	4.1800e-003	1.0800e-003	2.4000e-004	1.3200e-003		14.8780	14.8780	7.5000e-004	2.3700e-003	15.6018
Vendor	3.4800e-003	0.1340	0.0477	6.2000e-004	0.0203	7.9000e-004	0.0211	5.8500e-003	7.5000e-004	6.6000e-003		66.4084	66.4084	2.0000e-003	9.6200e-003	69.3264
Worker	0.0297	0.0191	0.2287	6.9000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		70.2020	70.2020	2.1200e-003	1.9800e-003	70.8444
Total	0.0336	0.1837	0.2846	1.4400e-003	0.1064	1.4800e-003	0.1079	0.0287	1.4000e-003	0.0301		151.4884	151.4884	4.8700e-003	0.0140	155.7726

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5927	5.7118	7.2649	0.0123		0.2758	0.2758		0.2537	0.2537	0.0000	1,192.1149	1,192.1149	0.3856		1,201.7537
Total	0.5927	5.7118	7.2649	0.0123		0.2758	0.2758		0.2537	0.2537	0.0000	1,192.1149	1,192.1149	0.3856		1,201.7537

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 P3 - EMG Pump Station - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.8000e-004	0.0306	8.1800e-003	1.3000e-004	3.9300e-003	2.5000e-004	4.1800e-003	1.0800e-003	2.4000e-004	1.3200e-003		14.8780	14.8780	7.5000e-004	2.3700e-003	15.6018
Vendor	3.4800e-003	0.1340	0.0477	6.2000e-004	0.0203	7.9000e-004	0.0211	5.8500e-003	7.5000e-004	6.6000e-003		66.4084	66.4084	2.0000e-003	9.6200e-003	69.3264
Worker	0.0297	0.0191	0.2287	6.9000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		70.2020	70.2020	2.1200e-003	1.9800e-003	70.8444
Total	0.0336	0.1837	0.2846	1.4400e-003	0.1064	1.4800e-003	0.1079	0.0287	1.4000e-003	0.0301		151.4884	151.4884	4.8700e-003	0.0140	155.7726

3.6 P3 - EMG Pump Station - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5607	5.2659	7.2425	0.0123		0.2467	0.2467		0.2270	0.2270		1,192.4589	1,192.4589	0.3857		1,202.1005
Total	0.5607	5.2659	7.2425	0.0123		0.2467	0.2467		0.2270	0.2270		1,192.4589	1,192.4589	0.3857		1,202.1005

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 P3 - EMG Pump Station - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7000e-004	0.0303	8.2900e-003	1.3000e-004	3.9300e-003	2.5000e-004	4.1800e-003	1.0800e-003	2.4000e-004	1.3200e-003		14.6164	14.6164	7.7000e-004	2.3300e-003	15.3288
Vendor	3.3400e-003	0.1331	0.0467	6.0000e-004	0.0203	7.9000e-004	0.0211	5.8500e-003	7.6000e-004	6.6100e-003		65.2532	65.2532	2.0500e-003	9.4600e-003	68.1222
Worker	0.0279	0.0172	0.2141	6.6000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		68.4441	68.4441	1.9300e-003	1.8500e-003	69.0431
Total	0.0317	0.1806	0.2690	1.3900e-003	0.1064	1.4600e-003	0.1079	0.0287	1.3900e-003	0.0301		148.3137	148.3137	4.7500e-003	0.0136	152.4941

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5607	5.2659	7.2425	0.0123		0.2467	0.2467		0.2270	0.2270	0.0000	1,192.4589	1,192.4589	0.3857		1,202.1005
Total	0.5607	5.2659	7.2425	0.0123		0.2467	0.2467		0.2270	0.2270	0.0000	1,192.4589	1,192.4589	0.3857		1,202.1005

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 P3 - EMG Pump Station - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7000e-004	0.0303	8.2900e-003	1.3000e-004	3.9300e-003	2.5000e-004	4.1800e-003	1.0800e-003	2.4000e-004	1.3200e-003		14.6164	14.6164	7.7000e-004	2.3300e-003	15.3288
Vendor	3.3400e-003	0.1331	0.0467	6.0000e-004	0.0203	7.9000e-004	0.0211	5.8500e-003	7.6000e-004	6.6100e-003		65.2532	65.2532	2.0500e-003	9.4600e-003	68.1222
Worker	0.0279	0.0172	0.2141	6.6000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		68.4441	68.4441	1.9300e-003	1.8500e-003	69.0431
Total	0.0317	0.1806	0.2690	1.3900e-003	0.1064	1.4600e-003	0.1079	0.0287	1.3900e-003	0.0301		148.3137	148.3137	4.7500e-003	0.0136	152.4941

3.7 P2 - Dechlorination Station - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7108	17.5692	19.0944	0.0354		0.7556	0.7556		0.7060	0.7060		3,404.8975	3,404.8975	0.9214		3,427.9335
Total	1.7108	17.5692	19.0944	0.0354		0.7556	0.7556		0.7060	0.7060		3,404.8975	3,404.8975	0.9214		3,427.9335

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 P2 - Dechlorination Station - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7200e-003	0.1098	0.0293	4.8000e-004	0.0141	9.0000e-004	0.0150	3.8700e-003	8.6000e-004	4.7200e-003		53.3806	53.3806	2.6800e-003	8.4900e-003	55.9775
Vendor	3.4800e-003	0.1340	0.0477	6.2000e-004	0.0203	7.9000e-004	0.0211	5.8500e-003	7.5000e-004	6.6000e-003		66.4084	66.4084	2.0000e-003	9.6200e-003	69.3264
Worker	0.0741	0.0477	0.5717	1.7100e-003	0.2054	1.1000e-003	0.2065	0.0545	1.0200e-003	0.0555		175.5051	175.5051	5.3000e-003	4.9400e-003	177.1111
Total	0.0793	0.2915	0.6487	2.8100e-003	0.2398	2.7900e-003	0.2426	0.0642	2.6300e-003	0.0668		295.2941	295.2941	9.9800e-003	0.0231	302.4149

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7108	17.5692	19.0944	0.0354		0.7556	0.7556		0.7060	0.7060	0.0000	3,404.8975	3,404.8975	0.9214		3,427.9335
Total	1.7108	17.5692	19.0944	0.0354		0.7556	0.7556		0.7060	0.7060	0.0000	3,404.8975	3,404.8975	0.9214		3,427.9335

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 P2 - Dechlorination Station - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7200e-003	0.1098	0.0293	4.8000e-004	0.0141	9.0000e-004	0.0150	3.8700e-003	8.6000e-004	4.7200e-003		53.3806	53.3806	2.6800e-003	8.4900e-003	55.9775
Vendor	3.4800e-003	0.1340	0.0477	6.2000e-004	0.0203	7.9000e-004	0.0211	5.8500e-003	7.5000e-004	6.6000e-003		66.4084	66.4084	2.0000e-003	9.6200e-003	69.3264
Worker	0.0741	0.0477	0.5717	1.7100e-003	0.2054	1.1000e-003	0.2065	0.0545	1.0200e-003	0.0555		175.5051	175.5051	5.3000e-003	4.9400e-003	177.1111
Total	0.0793	0.2915	0.6487	2.8100e-003	0.2398	2.7900e-003	0.2426	0.0642	2.6300e-003	0.0668		295.2941	295.2941	9.9800e-003	0.0231	302.4149

3.7 P2 - Dechlorination Station - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6130	16.2163	19.0436	0.0354		0.6758	0.6758		0.6312	0.6312		3,405.1523	3,405.1523	0.9193		3,428.1355
Total	1.6130	16.2163	19.0436	0.0354		0.6758	0.6758		0.6312	0.6312		3,405.1523	3,405.1523	0.9193		3,428.1355

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 P2 - Dechlorination Station - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-003	0.1088	0.0297	4.7000e-004	0.0141	9.0000e-004	0.0150	3.8700e-003	8.6000e-004	4.7300e-003		52.4418	52.4418	2.7600e-003	8.3500e-003	54.9981
Vendor	3.3400e-003	0.1331	0.0467	6.0000e-004	0.0203	7.9000e-004	0.0211	5.8500e-003	7.6000e-004	6.6100e-003		65.2532	65.2532	2.0500e-003	9.4600e-003	68.1222
Worker	0.0698	0.0430	0.5353	1.6600e-003	0.2054	1.0500e-003	0.2064	0.0545	9.7000e-004	0.0554		171.1102	171.1102	4.8300e-003	4.6200e-003	172.6078
Total	0.0749	0.2849	0.6116	2.7300e-003	0.2398	2.7400e-003	0.2425	0.0642	2.5900e-003	0.0668		288.8053	288.8053	9.6400e-003	0.0224	295.7280

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6130	16.2163	19.0436	0.0354		0.6758	0.6758		0.6312	0.6312	0.0000	3,405.1523	3,405.1523	0.9193		3,428.1355
Total	1.6130	16.2163	19.0436	0.0354		0.6758	0.6758		0.6312	0.6312	0.0000	3,405.1523	3,405.1523	0.9193		3,428.1355

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 P2 - Dechlorination Station - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-003	0.1088	0.0297	4.7000e-004	0.0141	9.0000e-004	0.0150	3.8700e-003	8.6000e-004	4.7300e-003		52.4418	52.4418	2.7600e-003	8.3500e-003	54.9981
Vendor	3.3400e-003	0.1331	0.0467	6.0000e-004	0.0203	7.9000e-004	0.0211	5.8500e-003	7.6000e-004	6.6100e-003		65.2532	65.2532	2.0500e-003	9.4600e-003	68.1222
Worker	0.0698	0.0430	0.5353	1.6600e-003	0.2054	1.0500e-003	0.2064	0.0545	9.7000e-004	0.0554		171.1102	171.1102	4.8300e-003	4.6200e-003	172.6078
Total	0.0749	0.2849	0.6116	2.7300e-003	0.2398	2.7400e-003	0.2425	0.0642	2.5900e-003	0.0668		288.8053	288.8053	9.6400e-003	0.0224	295.7280

3.8 P4 - Triple and Dual Alignments - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8611	31.8647	41.1081	0.0935		1.3261	1.3261		1.2515	1.2515		8,962.2747	8,962.2747	2.3331		9,020.6015
Total	3.8611	31.8647	41.1081	0.0935		1.3261	1.3261		1.2515	1.2515		8,962.2747	8,962.2747	2.3331		9,020.6015

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 P4 - Triple and Dual Alignments - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.1257	0.0773	0.9635	2.9900e-003	0.3697	1.9000e-003	0.3716	0.0981	1.7500e-003	0.0998		307.9984	307.9984	8.6900e-003	8.3200e-003	310.6940
Total	0.1301	0.2548	1.0257	3.7900e-003	0.3968	2.9500e-003	0.3997	0.1059	2.7600e-003	0.1086		395.0026	395.0026	0.0114	0.0209	401.5235

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8611	31.8647	41.1081	0.0935		1.3261	1.3261		1.2515	1.2515	0.0000	8,962.2747	8,962.2747	2.3331		9,020.6015
Total	3.8611	31.8647	41.1081	0.0935		1.3261	1.3261		1.2515	1.2515	0.0000	8,962.2747	8,962.2747	2.3331		9,020.6015

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 P4 - Triple and Dual Alignments - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.1257	0.0773	0.9635	2.9900e-003	0.3697	1.9000e-003	0.3716	0.0981	1.7500e-003	0.0998		307.9984	307.9984	8.6900e-003	8.3200e-003	310.6940
Total	0.1301	0.2548	1.0257	3.7900e-003	0.3968	2.9500e-003	0.3997	0.1059	2.7600e-003	0.1086		395.0026	395.0026	0.0114	0.0209	401.5235

3.8 P4 - Triple and Dual Alignments - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6406	28.9191	40.8754	0.0935		1.1496	1.1496		1.0846	1.0846		8,961.3084	8,961.3084	2.3248		9,019.4290
Total	3.6406	28.9191	40.8754	0.0935		1.1496	1.1496		1.0846	1.0846		8,961.3084	8,961.3084	2.3248		9,019.4290

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 P4 - Triple and Dual Alignments - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3100e-003	0.1758	0.0612	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0100e-003	8.8000e-003		85.3475	85.3475	2.8000e-003	0.0124	89.1010
Worker	0.1187	0.0700	0.9052	2.8800e-003	0.3697	1.8100e-003	0.3715	0.0981	1.6700e-003	0.0997		300.4808	300.4808	7.9300e-003	7.8100e-003	303.0051
Total	0.1230	0.2458	0.9664	3.6700e-003	0.3968	2.8600e-003	0.3996	0.1059	2.6800e-003	0.1085		385.8283	385.8283	0.0107	0.0202	392.1061

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6406	28.9191	40.8754	0.0935		1.1496	1.1496		1.0846	1.0846	0.0000	8,961.3083	8,961.3083	2.3248		9,019.4290
Total	3.6406	28.9191	40.8754	0.0935		1.1496	1.1496		1.0846	1.0846	0.0000	8,961.3083	8,961.3083	2.3248		9,019.4290

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 P4 - Triple and Dual Alignments - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3100e-003	0.1758	0.0612	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0100e-003	8.8000e-003		85.3475	85.3475	2.8000e-003	0.0124	89.1010
Worker	0.1187	0.0700	0.9052	2.8800e-003	0.3697	1.8100e-003	0.3715	0.0981	1.6700e-003	0.0997		300.4808	300.4808	7.9300e-003	7.8100e-003	303.0051
Total	0.1230	0.2458	0.9664	3.6700e-003	0.3968	2.8600e-003	0.3996	0.1059	2.6800e-003	0.1085		385.8283	385.8283	0.0107	0.0202	392.1061

3.9 P3 - RBS Lift Station - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0563	9.7114	12.9447	0.0284		0.4201	0.4201		0.3954	0.3954		2,732.8568	2,732.8568	0.7076		2,750.5462
Total	1.0563	9.7114	12.9447	0.0284		0.4201	0.4201		0.3954	0.3954		2,732.8568	2,732.8568	0.7076		2,750.5462

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 P3 - RBS Lift Station - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5700e-003	0.2219	0.0778	1.0100e-003	0.0339	1.3200e-003	0.0352	9.7500e-003	1.2600e-003	0.0110		108.7553	108.7553	3.4100e-003	0.0158	113.5369
Worker	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647
Total	0.0475	0.2476	0.3989	2.0100e-003	0.1571	1.9500e-003	0.1590	0.0424	1.8400e-003	0.0443		211.4215	211.4215	6.3100e-003	0.0185	217.1016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0563	9.7114	12.9447	0.0284		0.4201	0.4201		0.3954	0.3954	0.0000	2,732.8568	2,732.8568	0.7076		2,750.5462
Total	1.0563	9.7114	12.9447	0.0284		0.4201	0.4201		0.3954	0.3954	0.0000	2,732.8568	2,732.8568	0.7076		2,750.5462

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 P3 - RBS Lift Station - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5700e-003	0.2219	0.0778	1.0100e-003	0.0339	1.3200e-003	0.0352	9.7500e-003	1.2600e-003	0.0110		108.7553	108.7553	3.4100e-003	0.0158	113.5369
Worker	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647
Total	0.0475	0.2476	0.3989	2.0100e-003	0.1571	1.9500e-003	0.1590	0.0424	1.8400e-003	0.0443		211.4215	211.4215	6.3100e-003	0.0185	217.1016

3.10 P4 - RBL Extension - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6771	22.3839	34.0321	0.0707		0.9223	0.9223		0.8722	0.8722		6,789.0100	6,789.0100	1.6697		6,830.7513
Total	2.6771	22.3839	34.0321	0.0707		0.9223	0.9223		0.8722	0.8722		6,789.0100	6,789.0100	1.6697		6,830.7513

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 P4 - RBL Extension - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3100e-003	0.1758	0.0612	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0100e-003	8.8000e-003		85.3475	85.3475	2.8000e-003	0.0124	89.1010
Worker	0.1055	0.0622	0.8046	2.5600e-003	0.3286	1.6100e-003	0.3302	0.0872	1.4900e-003	0.0886		267.0940	267.0940	7.0500e-003	6.9400e-003	269.3379
Total	0.1098	0.2380	0.8658	3.3500e-003	0.3557	2.6600e-003	0.3583	0.0950	2.5000e-003	0.0974		352.4416	352.4416	9.8500e-003	0.0193	358.4388

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6771	22.3839	34.0321	0.0707		0.9223	0.9223		0.8722	0.8722	0.0000	6,789.0100	6,789.0100	1.6697		6,830.7513
Total	2.6771	22.3839	34.0321	0.0707		0.9223	0.9223		0.8722	0.8722	0.0000	6,789.0100	6,789.0100	1.6697		6,830.7513

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 P4 - RBL Extension - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3100e-003	0.1758	0.0612	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0100e-003	8.8000e-003		85.3475	85.3475	2.8000e-003	0.0124	89.1010
Worker	0.1055	0.0622	0.8046	2.5600e-003	0.3286	1.6100e-003	0.3302	0.0872	1.4900e-003	0.0886		267.0940	267.0940	7.0500e-003	6.9400e-003	269.3379
Total	0.1098	0.2380	0.8658	3.3500e-003	0.3557	2.6600e-003	0.3583	0.0950	2.5000e-003	0.0974		352.4416	352.4416	9.8500e-003	0.0193	358.4388

3.11 P4 - Mission Valley Lift Station - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8592	14.8422	23.1864	0.0467		0.6188	0.6188		0.5844	0.5844		4,490.5994	4,490.5994	1.1083		4,518.3060
Total	1.8592	14.8422	23.1864	0.0467		0.6188	0.6188		0.5844	0.5844		4,490.5994	4,490.5994	1.1083		4,518.3060

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 P4 - Mission Valley Lift Station - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2900e-003	0.5314	0.1493	2.2900e-003	0.0698	4.4500e-003	0.0743	0.0191	4.2600e-003	0.0234		254.3501	254.3501	0.0141	0.0405	266.7754
Vendor	4.3100e-003	0.1758	0.0612	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0100e-003	8.8000e-003		85.3475	85.3475	2.8000e-003	0.0124	89.1010
Worker	0.0607	0.0358	0.4627	1.4700e-003	0.1889	9.3000e-004	0.1899	0.0501	8.5000e-004	0.0510		153.5791	153.5791	4.0500e-003	3.9900e-003	154.8693
Total	0.0733	0.7429	0.6732	4.5500e-003	0.2859	6.4300e-003	0.2923	0.0771	6.1200e-003	0.0832		493.2766	493.2766	0.0210	0.0569	510.7457

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8592	14.8422	23.1864	0.0467		0.6188	0.6188		0.5844	0.5844	0.0000	4,490.5994	4,490.5994	1.1083		4,518.3060
Total	1.8592	14.8422	23.1864	0.0467		0.6188	0.6188		0.5844	0.5844	0.0000	4,490.5994	4,490.5994	1.1083		4,518.3060

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 P4 - Mission Valley Lift Station - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2900e-003	0.5314	0.1493	2.2900e-003	0.0698	4.4500e-003	0.0743	0.0191	4.2600e-003	0.0234		254.3501	254.3501	0.0141	0.0405	266.7754
Vendor	4.3100e-003	0.1758	0.0612	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0100e-003	8.8000e-003		85.3475	85.3475	2.8000e-003	0.0124	89.1010
Worker	0.0607	0.0358	0.4627	1.4700e-003	0.1889	9.3000e-004	0.1899	0.0501	8.5000e-004	0.0510		153.5791	153.5791	4.0500e-003	3.9900e-003	154.8693
Total	0.0733	0.7429	0.6732	4.5500e-003	0.2859	6.4300e-003	0.2923	0.0771	6.1200e-003	0.0832		493.2766	493.2766	0.0210	0.0569	510.7457

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

East County Advanced Water Purification - Construction - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

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

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

East County Advanced Water Purification - Construction

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Updated general construction schedule for Packages 1-4.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

Off-road Equipment - Updated equipment scenario.

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - Updated equipment scenario.

Trips and VMT - Worker trips calculated based on typical CalEEMod assumption of 1.25 workers per each piece of equipment, and two trips per worker.
Vendor trips and haul truck trips based on 2018 modeling.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	0.00	782.00
tblConstructionPhase	NumDays	0.00	260.00
tblConstructionPhase	NumDays	0.00	390.00
tblConstructionPhase	NumDays	0.00	652.00
tblConstructionPhase	NumDays	0.00	217.00
tblConstructionPhase	NumDays	0.00	218.00
tblConstructionPhase	NumDays	0.00	217.00
tblConstructionPhase	NumDays	0.00	370.00
tblConstructionPhase	NumDays	0.00	262.00
tblConstructionPhase	NumDays	0.00	260.00
tblOnRoadDust	PhaseName	P3 - EMGFM and RBS Pipeline	P3 - WRFFM and RBS Pipeline
tblTripsAndVMT	HaulingTripNumber	0.00	9,052.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,038.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,400.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,948.00
tblTripsAndVMT	HaulingTripNumber	0.00	35.00
tblTripsAndVMT	HaulingTripNumber	0.00	49.00
tblTripsAndVMT	HaulingTripNumber	0.00	175.00
tblTripsAndVMT	PhaseName	P3 - EMGFM and RBS Pipeline	P3 - WRFFM and RBS Pipeline
tblTripsAndVMT	VendorTripNumber	0.00	45.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tbITripsAndVMT	VendorTripNumber	0.00	5.00
tbITripsAndVMT	VendorTripNumber	0.00	10.00
tbITripsAndVMT	VendorTripNumber	0.00	3.00
tbITripsAndVMT	VendorTripNumber	0.00	3.00
tbITripsAndVMT	VendorTripNumber	0.00	4.00
tbITripsAndVMT	VendorTripNumber	0.00	5.00
tbITripsAndVMT	VendorTripNumber	0.00	4.00
tbITripsAndVMT	WorkerTripNumber	0.00	73.00
tbITripsAndVMT	WorkerTripNumber	0.00	23.00
tbITripsAndVMT	WorkerTripNumber	0.00	53.00
tbITripsAndVMT	WorkerTripNumber	0.00	35.00
tbITripsAndVMT	WorkerTripNumber	0.00	10.00
tbITripsAndVMT	WorkerTripNumber	0.00	10.00
tbITripsAndVMT	WorkerTripNumber	0.00	25.00
tbITripsAndVMT	WorkerTripNumber	0.00	45.00
tbITripsAndVMT	WorkerTripNumber	0.00	15.00
tbITripsAndVMT	WorkerTripNumber	0.00	40.00

2.0 Emissions Summary

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.9566	9.1897	9.0933	0.0192	0.1290	0.4183	0.5473	0.0352	0.3953	0.4305	0.0000	1,698.7108	1,698.7108	0.3531	0.0304	1,716.6038
2023	2.1017	19.8190	22.5165	0.0469	0.3296	0.8724	1.2019	0.0896	0.8228	0.9124	0.0000	4,144.4237	4,144.4237	0.8881	0.0708	4,187.7196
2024	1.8812	17.2132	20.2213	0.0439	0.2724	0.7222	0.9945	0.0740	0.6816	0.7556	0.0000	3,870.7498	3,870.7498	0.8383	0.0522	3,907.2683
2025	1.5055	12.5005	17.3384	0.0385	0.1941	0.5011	0.6952	0.0524	0.4730	0.5254	0.0000	3,382.4480	3,382.4480	0.7842	0.0251	3,409.5422
Maximum	2.1017	19.8190	22.5165	0.0469	0.3296	0.8724	1.2019	0.0896	0.8228	0.9124	0.0000	4,144.4237	4,144.4237	0.8881	0.0708	4,187.7196

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.9566	9.1897	9.0933	0.0192	0.1290	0.4183	0.5473	0.0352	0.3953	0.4305	0.0000	1,698.709 1	1,698.709 1	0.3531	0.0304	1,716.602 0
2023	2.1017	19.8190	22.5165	0.0469	0.3296	0.8724	1.2019	0.0896	0.8228	0.9124	0.0000	4,144.419 5	4,144.419 5	0.8881	0.0708	4,187.715 3
2024	1.8812	17.2132	20.2213	0.0439	0.2724	0.7222	0.9945	0.0740	0.6816	0.7556	0.0000	3,870.745 8	3,870.745 8	0.8383	0.0522	3,907.264 2
2025	1.5055	12.5005	17.3384	0.0385	0.1941	0.5011	0.6952	0.0524	0.4730	0.5254	0.0000	3,382.444 3	3,382.444 3	0.7842	0.0251	3,409.538 4
Maximum	2.1017	19.8190	22.5165	0.0469	0.3296	0.8724	1.2019	0.0896	0.8228	0.9124	0.0000	4,144.419 5	4,144.419 5	0.8881	0.0708	4,187.715 3

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	3.4186	3.4186
2	9-1-2022	11-30-2022	4.8675	4.8675
3	12-1-2022	2-28-2023	5.0884	5.0884
4	3-1-2023	5-31-2023	5.2261	5.2261
5	6-1-2023	8-31-2023	5.7195	5.7195
6	9-1-2023	11-30-2023	5.8146	5.8146
7	12-1-2023	2-29-2024	5.6283	5.6283
8	3-1-2024	5-31-2024	4.5520	4.5520

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

9	6-1-2024	8-31-2024	4.1812	4.1812
10	9-1-2024	11-30-2024	4.9191	4.9191
11	12-1-2024	2-28-2025	5.0241	5.0241
12	3-1-2025	5-31-2025	4.8367	4.8367
13	6-1-2025	8-31-2025	2.4896	2.4896
14	9-1-2025	9-30-2025	0.8118	0.8118
		Highest	5.8146	5.8146

2.2 Overall Operational

Unmitigated Operational

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

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	P1 - WRF, SHERF, AWTP, Pond C	Building Construction	6/1/2022	5/29/2025	5	782	
2	P2 - AWP Pipeline and Lake Jennings Inlet	Building Construction	10/3/2022	3/29/2024	5	390	
3	P3 - WRFFM and RBS Pipeline	Building Construction	8/1/2022	1/28/2025	5	652	

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4	P3 - Influent Pump Station	Building Construction	1/2/2023	10/31/2023	5	217
5	P3 - EMG Pump Station	Building Construction	4/3/2023	1/31/2024	5	218
6	P2 - Dechlorination Station	Building Construction	7/3/2023	4/30/2024	5	217
7	P4 - Triple and Dual Alignments	Building Construction	8/1/2024	12/31/2025	5	370
8	P3 - RBS Lift Station	Building Construction	1/1/2024	12/31/2024	5	262
9	P4 - RBL Extension	Building Construction	1/2/2025	12/31/2025	5	260
10	P4 - Mission Valley Lift Station	Building Construction	1/2/2025	12/31/2025	5	260

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
P1 - WRF, SHERF, AWTP, Pond C	Air Compressors	2	6.00	78	0.48
P1 - WRF, SHERF, AWTP, Pond C	Cranes	2	4.00	231	0.29
P1 - WRF, SHERF, AWTP, Pond C	Excavators	2	8.00	158	0.38
P1 - WRF, SHERF, AWTP, Pond C	Forklifts	2	6.00	89	0.20
P1 - WRF, SHERF, AWTP, Pond C	Generator Sets	3	8.00	84	0.74
P1 - WRF, SHERF, AWTP, Pond C	Off-Highway Trucks	1	8.00	402	0.38
P1 - WRF, SHERF, AWTP, Pond C	Pavers	1	6.00	130	0.42
P1 - WRF, SHERF, AWTP, Pond C	Plate Compactors	2	6.00	8	0.43
P1 - WRF, SHERF, AWTP, Pond C	Pumps	3	8.00	84	0.74
P1 - WRF, SHERF, AWTP, Pond C	Rollers	2	6.00	80	0.38
P1 - WRF, SHERF, AWTP, Pond C	Rubber Tired Dozers	2	8.00	247	0.40
P1 - WRF, SHERF, AWTP, Pond C	Scrapers	2	8.00	367	0.48
P1 - WRF, SHERF, AWTP, Pond C	Skid Steer Loaders	1	8.00	65	0.37

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

P1 - WRF, SHERF, AWTP, Pond C	Tractors/Loaders/Backhoes	4	8.00	97	0.37
P2 - AWP Pipeline and Lake Jennings Inlet	Bore/Drill Rigs	1	8.00	221	0.50
P2 - AWP Pipeline and Lake Jennings Inlet	Concrete/Industrial Saws	1	8.00	81	0.73
P2 - AWP Pipeline and Lake Jennings Inlet	Cranes	1	4.00	231	0.29
P2 - AWP Pipeline and Lake Jennings Inlet	Excavators	3	8.00	158	0.38
P2 - AWP Pipeline and Lake Jennings Inlet	Forklifts	1	6.00	89	0.20
P2 - AWP Pipeline and Lake Jennings Inlet	Generator Sets	1	8.00	84	0.74
P2 - AWP Pipeline and Lake Jennings Inlet	Paving Equipment	1	6.00	132	0.36
P2 - AWP Pipeline and Lake Jennings Inlet	Pumps	1	8.00	84	0.74
P2 - AWP Pipeline and Lake Jennings Inlet	Rollers	5	6.00	80	0.38
P2 - AWP Pipeline and Lake Jennings Inlet	Skid Steer Loaders	2	8.00	65	0.37
P2 - AWP Pipeline and Lake Jennings Inlet	Sweepers/Scrubbers	1	6.00	64	0.46
P2 - AWP Pipeline and Lake Jennings Inlet	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P2 - AWP Pipeline and Lake Jennings Inlet	Welders	1	8.00	46	0.45
P4 - Triple and Dual Alignments	Bore/Drill Rigs	1	8.00	221	0.50
P4 - Triple and Dual Alignments	Concrete/Industrial Saws	1	8.00	81	0.73
P4 - Triple and Dual Alignments	Cranes	1	4.00	231	0.29
P4 - Triple and Dual Alignments	Excavators	2	8.00	158	0.38
P4 - Triple and Dual Alignments	Generator Sets	1	8.00	84	0.74
P4 - Triple and Dual Alignments	Off-Highway Trucks	2	8.00	402	0.38
P4 - Triple and Dual Alignments	Pavers	1	6.00	130	0.42
P4 - Triple and Dual Alignments	Plate Compactors	1	6.00	8	0.43
P4 - Triple and Dual Alignments	Pumps	1	8.00	84	0.74
P4 - Triple and Dual Alignments	Rollers	2	6.00	80	0.38
P4 - Triple and Dual Alignments	Rubber Tired Loaders	1	8.00	203	0.36
P4 - Triple and Dual Alignments	Skid Steer Loaders	1	8.00	65	0.37

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

P4 - Triple and Dual Alignments	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P4 - Triple and Dual Alignments	Welders	1	8.00	46	0.45
P2 - Dechlorination Station	Cranes	1	4.00	231	0.29
P2 - Dechlorination Station	Excavators	1	8.00	158	0.38
P2 - Dechlorination Station	Generator Sets	1	8.00	84	0.74
P2 - Dechlorination Station	Graders	1	8.00	187	0.41
P2 - Dechlorination Station	Pavers	1	6.00	130	0.42
P2 - Dechlorination Station	Plate Compactors	1	6.00	8	0.43
P2 - Dechlorination Station	Rollers	1	6.00	80	0.38
P2 - Dechlorination Station	Skid Steer Loaders	1	8.00	65	0.37
P2 - Dechlorination Station	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P3 - EMG Pump Station	Cranes	1	4.00	231	0.29
P3 - EMG Pump Station	Excavators	1	8.00	158	0.38
P3 - EMG Pump Station	Forklifts	1	6.00	89	0.20
P3 - EMG Pump Station	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P3 - WRFFM and RBS Pipeline	Bore/Drill Rigs	1	8.00	221	0.50
P3 - WRFFM and RBS Pipeline	Concrete/Industrial Saws	1	8.00	81	0.73
P3 - WRFFM and RBS Pipeline	Cranes	1	4.00	231	0.29
P3 - WRFFM and RBS Pipeline	Excavators	1	8.00	158	0.38
P3 - WRFFM and RBS Pipeline	Generator Sets	1	8.00	84	0.74
P3 - WRFFM and RBS Pipeline	Pavers	1	6.00	130	0.42
P3 - WRFFM and RBS Pipeline	Plate Compactors	1	6.00	8	0.43
P3 - WRFFM and RBS Pipeline	Pumps	1	8.00	84	0.74
P3 - WRFFM and RBS Pipeline	Rollers	1	6.00	80	0.38
P3 - WRFFM and RBS Pipeline	Skid Steer Loaders	1	8.00	65	0.37
P3 - WRFFM and RBS Pipeline	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P3 - WRFFM and RBS Pipeline	Welders	1	8.00	46	0.45
P3 - Influent Pump Station	Cranes	1	4.00	231	0.29
P3 - Influent Pump Station	Excavators	1	8.00	158	0.38

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

P3 - Influent Pump Station	Forklifts	1	6.00	89	0.20
P3 - Influent Pump Station	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P4 - RBL Extension		0			
P4 - RBL Extension	Bore/Drill Rigs	1	8.00	221	0.50
P4 - RBL Extension	Concrete/Industrial Saws	1	8.00	81	0.73
P4 - RBL Extension	Cranes	1	4.00	231	0.29
P4 - RBL Extension	Excavators	2	8.00	158	0.38
P4 - RBL Extension	Forklifts	1	6.00	89	0.20
P4 - RBL Extension	Generator Sets	1	8.00	84	0.74
P4 - RBL Extension	Off-Highway Trucks	1	8.00	402	0.38
P4 - RBL Extension	Pavers	1	6.00	130	0.42
P4 - RBL Extension	Plate Compactors	1	6.00	8	0.43
P4 - RBL Extension	Pumps	1	8.00	84	0.74
P4 - RBL Extension	Rollers	1	6.00	80	0.38
P4 - RBL Extension	Skid Steer Loaders	1	8.00	65	0.37
P4 - RBL Extension	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P4 - Mission Valley Lift Station	Concrete/Industrial Saws	1	8.00	81	0.73
P4 - Mission Valley Lift Station	Cranes	1	4.00	231	0.29
P4 - Mission Valley Lift Station	Excavators	2	8.00	158	0.38
P4 - Mission Valley Lift Station	Forklifts	1	6.00	89	0.20
P4 - Mission Valley Lift Station	Generator Sets	1	8.00	84	0.74
P4 - Mission Valley Lift Station	Off-Highway Trucks	1	8.00	402	0.38
P4 - Mission Valley Lift Station	Tractors/Loaders/Backhoes	2	8.00	97	0.37
P3 - RBS Lift Station	Bore/Drill Rigs	1	8.00	221	0.50
P3 - RBS Lift Station	Cranes	1	4.00	231	0.29
P3 - RBS Lift Station	Excavators	1	8.00	158	0.38
P3 - RBS Lift Station	Forklifts	1	6.00	89	0.20
P3 - RBS Lift Station	Generator Sets	1	8.00	84	0.74
P3 - RBS Lift Station	Tractors/Loaders/Backhoes	1	8.00	97	0.37

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
P1 - WRF, SHERF, AWTP, Pond C	29	73.00	45.00	9,052.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 - AWP Pipeline and Lake Jennings Inl.	21	53.00	8.00	5,400.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 - Triple and Dual Alignments	18	45.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 - Dechlorination Station	10	25.00	3.00	175.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 - EMG Pump Station	4	10.00	3.00	49.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 - WRFFM and RRS Pipeline	13	35.00	5.00	3,948.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 - Influent Pump Station	4	10.00	10.00	35.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 - RBL Extension	15	40.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 - Mission Valley Lift Station	9	23.00	4.00	1,038.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 - RBS Lift Station	6	15.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.6455	6.2338	5.7273	0.0113		0.2933	0.2933		0.2765	0.2765	0.0000	980.9860	980.9860	0.2353	0.0000	986.8677
Total	0.6455	6.2338	5.7273	0.0113		0.2933	0.2933		0.2765	0.2765	0.0000	980.9860	980.9860	0.2353	0.0000	986.8677

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9300e-003	0.1491	0.0352	5.6000e-004	0.0152	1.3900e-003	0.0166	4.1700e-003	1.3300e-003	5.4900e-003	0.0000	55.5056	55.5056	2.6700e-003	8.8200e-003	58.1999
Vendor	7.6100e-003	0.1895	0.0621	7.3000e-004	0.0229	1.9900e-003	0.0249	6.6000e-003	1.9100e-003	8.5100e-003	0.0000	71.7897	71.7897	2.1800e-003	0.0104	74.9518
Worker	0.0161	0.0117	0.1373	4.0000e-004	0.0448	2.6000e-004	0.0450	0.0119	2.4000e-004	0.0121	0.0000	36.8297	36.8297	1.1600e-003	1.0600e-003	37.1754
Total	0.0277	0.3503	0.2345	1.6900e-003	0.0828	3.6400e-003	0.0864	0.0227	3.4800e-003	0.0261	0.0000	164.1250	164.1250	6.0100e-003	0.0203	170.3271

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.6455	6.2338	5.7273	0.0113		0.2933	0.2933		0.2765	0.2765	0.0000	980.9848	980.9848	0.2353	0.0000	986.8665
Total	0.6455	6.2338	5.7273	0.0113		0.2933	0.2933		0.2765	0.2765	0.0000	980.9848	980.9848	0.2353	0.0000	986.8665

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9300e-003	0.1491	0.0352	5.6000e-004	0.0152	1.3900e-003	0.0166	4.1700e-003	1.3300e-003	5.4900e-003	0.0000	55.5056	55.5056	2.6700e-003	8.8200e-003	58.1999
Vendor	7.6100e-003	0.1895	0.0621	7.3000e-004	0.0229	1.9900e-003	0.0249	6.6000e-003	1.9100e-003	8.5100e-003	0.0000	71.7897	71.7897	2.1800e-003	0.0104	74.9518
Worker	0.0161	0.0117	0.1373	4.0000e-004	0.0448	2.6000e-004	0.0450	0.0119	2.4000e-004	0.0121	0.0000	36.8297	36.8297	1.1600e-003	1.0600e-003	37.1754
Total	0.0277	0.3503	0.2345	1.6900e-003	0.0828	3.6400e-003	0.0864	0.0227	3.4800e-003	0.0261	0.0000	164.1250	164.1250	6.0100e-003	0.0203	170.3271

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0035	9.4853	9.5180	0.0191		0.4287	0.4287		0.4043	0.4043	0.0000	1,667.2820	1,667.2820	0.3976	0.0000	1,677.2218
Total	1.0035	9.4853	9.5180	0.0191		0.4287	0.4287		0.4043	0.4043	0.0000	1,667.2820	1,667.2820	0.3976	0.0000	1,677.2218

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3200e-003	0.2042	0.0543	9.0000e-004	0.0258	1.6700e-003	0.0275	7.0800e-003	1.6000e-003	8.6800e-003	0.0000	90.3104	90.3104	4.5400e-003	0.0144	94.7039
Vendor	6.8700e-003	0.2597	0.0916	1.2000e-003	0.0389	1.5300e-003	0.0404	0.0112	1.4600e-003	0.0127	0.0000	117.3805	117.3805	3.5500e-003	0.0170	122.5376
Worker	0.0257	0.0178	0.2169	6.6000e-004	0.0761	4.2000e-004	0.0765	0.0202	3.9000e-004	0.0206	0.0000	60.9737	60.9737	1.7900e-003	1.6800e-003	61.5190
Total	0.0359	0.4817	0.3628	2.7600e-003	0.1407	3.6200e-003	0.1444	0.0385	3.4500e-003	0.0420	0.0000	268.6645	268.6645	9.8800e-003	0.0331	278.7606

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0035	9.4853	9.5180	0.0191		0.4287	0.4287		0.4043	0.4043	0.0000	1,667.2800	1,667.2800	0.3976	0.0000	1,677.2198
Total	1.0035	9.4853	9.5180	0.0191		0.4287	0.4287		0.4043	0.4043	0.0000	1,667.2800	1,667.2800	0.3976	0.0000	1,677.2198

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3200e-003	0.2042	0.0543	9.0000e-004	0.0258	1.6700e-003	0.0275	7.0800e-003	1.6000e-003	8.6800e-003	0.0000	90.3104	90.3104	4.5400e-003	0.0144	94.7039
Vendor	6.8700e-003	0.2597	0.0916	1.2000e-003	0.0389	1.5300e-003	0.0404	0.0112	1.4600e-003	0.0127	0.0000	117.3805	117.3805	3.5500e-003	0.0170	122.5376
Worker	0.0257	0.0178	0.2169	6.6000e-004	0.0761	4.2000e-004	0.0765	0.0202	3.9000e-004	0.0206	0.0000	60.9737	60.9737	1.7900e-003	1.6800e-003	61.5190
Total	0.0359	0.4817	0.3628	2.7600e-003	0.1407	3.6200e-003	0.1444	0.0385	3.4500e-003	0.0420	0.0000	268.6645	268.6645	9.8800e-003	0.0331	278.7606

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.9733	9.0398	9.5393	0.0193		0.3964	0.3964		0.3733	0.3733	0.0000	1,680.0509	1,680.0509	0.3992	0.0000	1,690.0315
Total	0.9733	9.0398	9.5393	0.0193		0.3964	0.3964		0.3733	0.3733	0.0000	1,680.0509	1,680.0509	0.3992	0.0000	1,690.0315

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3100e-003	0.2040	0.0555	8.9000e-004	0.0260	1.6900e-003	0.0277	7.1400e-003	1.6200e-003	8.7600e-003	0.0000	89.4037	89.4037	4.7200e-003	0.0142	93.7618
Vendor	6.6600e-003	0.2599	0.0902	1.1900e-003	0.0392	1.5500e-003	0.0407	0.0113	1.4800e-003	0.0128	0.0000	116.2232	116.2232	3.6600e-003	0.0168	121.3325
Worker	0.0243	0.0161	0.2045	6.4000e-004	0.0767	4.0000e-004	0.0771	0.0204	3.7000e-004	0.0208	0.0000	59.9029	59.9029	1.6400e-003	1.5800e-003	60.4153
Total	0.0343	0.4801	0.3502	2.7200e-003	0.1418	3.6400e-003	0.1455	0.0388	3.4700e-003	0.0423	0.0000	265.5298	265.5298	0.0100	0.0327	275.5096

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.9733	9.0398	9.5393	0.0193		0.3964	0.3964		0.3733	0.3733	0.0000	1,680.0489	1,680.0489	0.3992	0.0000	1,690.0295
Total	0.9733	9.0398	9.5393	0.0193		0.3964	0.3964		0.3733	0.3733	0.0000	1,680.0489	1,680.0489	0.3992	0.0000	1,690.0295

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3100e-003	0.2040	0.0555	8.9000e-004	0.0260	1.6900e-003	0.0277	7.1400e-003	1.6200e-003	8.7600e-003	0.0000	89.4037	89.4037	4.7200e-003	0.0142	93.7618
Vendor	6.6600e-003	0.2599	0.0902	1.1900e-003	0.0392	1.5500e-003	0.0407	0.0113	1.4800e-003	0.0128	0.0000	116.2232	116.2232	3.6600e-003	0.0168	121.3325
Worker	0.0243	0.0161	0.2045	6.4000e-004	0.0767	4.0000e-004	0.0771	0.0204	3.7000e-004	0.0208	0.0000	59.9029	59.9029	1.6400e-003	1.5800e-003	60.4153
Total	0.0343	0.4801	0.3502	2.7200e-003	0.1418	3.6400e-003	0.1455	0.0388	3.4700e-003	0.0423	0.0000	265.5298	265.5298	0.0100	0.0327	275.5096

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3680	3.3344	3.8090	7.8700e-003		0.1399	0.1399		0.1318	0.1318	0.0000	686.0479	686.0479	0.1623	0.0000	690.1062
Total	0.3680	3.3344	3.8090	7.8700e-003		0.1399	0.1399		0.1318	0.1318	0.0000	686.0479	686.0479	0.1623	0.0000	690.1062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3300e-003	0.0822	0.0230	3.5000e-004	0.0106	6.9000e-004	0.0113	2.9100e-003	6.6000e-004	3.5700e-003	0.0000	35.7719	35.7719	1.9900e-003	5.7000e-003	37.5195
Vendor	2.6300e-003	0.1051	0.0362	4.7000e-004	0.0160	6.3000e-004	0.0166	4.6200e-003	6.0000e-004	5.2200e-003	0.0000	46.5604	46.5604	1.5300e-003	6.7400e-003	48.6078
Worker	9.3600e-003	5.9600e-003	0.0784	2.5000e-004	0.0313	1.6000e-004	0.0315	8.3200e-003	1.4000e-004	8.4700e-003	0.0000	23.8667	23.8667	6.1000e-004	6.1000e-004	24.0626
Total	0.0133	0.1933	0.1376	1.0700e-003	0.0579	1.4800e-003	0.0594	0.0159	1.4000e-003	0.0173	0.0000	106.1990	106.1990	4.1300e-003	0.0131	110.1900

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 P1 - WRF, SHERF, AWTP, Pond C - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3680	3.3344	3.8090	7.8700e-003		0.1399	0.1399		0.1318	0.1318	0.0000	686.0471	686.0471	0.1623	0.0000	690.1054
Total	0.3680	3.3344	3.8090	7.8700e-003		0.1399	0.1399		0.1318	0.1318	0.0000	686.0471	686.0471	0.1623	0.0000	690.1054

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3300e-003	0.0822	0.0230	3.5000e-004	0.0106	6.9000e-004	0.0113	2.9100e-003	6.6000e-004	3.5700e-003	0.0000	35.7719	35.7719	1.9900e-003	5.7000e-003	37.5195
Vendor	2.6300e-003	0.1051	0.0362	4.7000e-004	0.0160	6.3000e-004	0.0166	4.6200e-003	6.0000e-004	5.2200e-003	0.0000	46.5604	46.5604	1.5300e-003	6.7400e-003	48.6078
Worker	9.3600e-003	5.9600e-003	0.0784	2.5000e-004	0.0313	1.6000e-004	0.0315	8.3200e-003	1.4000e-004	8.4700e-003	0.0000	23.8667	23.8667	6.1000e-004	6.1000e-004	24.0626
Total	0.0133	0.1933	0.1376	1.0700e-003	0.0579	1.4800e-003	0.0594	0.0159	1.4000e-003	0.0173	0.0000	106.1990	106.1990	4.1300e-003	0.0131	110.1900

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1232	1.1368	1.4287	2.4700e-003		0.0573	0.0573		0.0541	0.0541	0.0000	214.8430	214.8430	0.0535	0.0000	216.1798
Total	0.1232	1.1368	1.4287	2.4700e-003		0.0573	0.0573		0.0541	0.0541	0.0000	214.8430	214.8430	0.0535	0.0000	216.1798

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9900e-003	0.0758	0.0179	2.8000e-004	7.7100e-003	7.0000e-004	8.4100e-003	2.1200e-003	6.7000e-004	2.7900e-003	0.0000	28.2065	28.2065	1.3600e-003	4.4800e-003	29.5757
Vendor	5.8000e-004	0.0143	4.6900e-003	6.0000e-005	1.7300e-003	1.5000e-004	1.8800e-003	5.0000e-004	1.4000e-004	6.4000e-004	0.0000	5.4220	5.4220	1.6000e-004	7.9000e-004	5.6608
Worker	4.9700e-003	3.6100e-003	0.0423	1.2000e-004	0.0138	8.0000e-005	0.0139	3.6700e-003	7.0000e-005	3.7400e-003	0.0000	11.3599	11.3599	3.6000e-004	3.3000e-004	11.4665
Total	7.5400e-003	0.0937	0.0649	4.6000e-004	0.0233	9.3000e-004	0.0242	6.2900e-003	8.8000e-004	7.1700e-003	0.0000	44.9884	44.9884	1.8800e-003	5.6000e-003	46.7031

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1232	1.1368	1.4287	2.4700e-003		0.0573	0.0573		0.0541	0.0541	0.0000	214.8428	214.8428	0.0535	0.0000	216.1795
Total	0.1232	1.1368	1.4287	2.4700e-003		0.0573	0.0573		0.0541	0.0541	0.0000	214.8428	214.8428	0.0535	0.0000	216.1795

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9900e-003	0.0758	0.0179	2.8000e-004	7.7100e-003	7.0000e-004	8.4100e-003	2.1200e-003	6.7000e-004	2.7900e-003	0.0000	28.2065	28.2065	1.3600e-003	4.4800e-003	29.5757
Vendor	5.8000e-004	0.0143	4.6900e-003	6.0000e-005	1.7300e-003	1.5000e-004	1.8800e-003	5.0000e-004	1.4000e-004	6.4000e-004	0.0000	5.4220	5.4220	1.6000e-004	7.9000e-004	5.6608
Worker	4.9700e-003	3.6100e-003	0.0423	1.2000e-004	0.0138	8.0000e-005	0.0139	3.6700e-003	7.0000e-005	3.7400e-003	0.0000	11.3599	11.3599	3.6000e-004	3.3000e-004	11.4665
Total	7.5400e-003	0.0937	0.0649	4.6000e-004	0.0233	9.3000e-004	0.0242	6.2900e-003	8.8000e-004	7.1700e-003	0.0000	44.9884	44.9884	1.8800e-003	5.6000e-003	46.7031

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4588	4.1738	5.7002	9.9000e-003		0.2011	0.2011		0.1896	0.1896	0.0000	859.7245	859.7245	0.2127	0.0000	865.0423
Total	0.4588	4.1738	5.7002	9.9000e-003		0.2011	0.2011		0.1896	0.1896	0.0000	859.7245	859.7245	0.2127	0.0000	865.0423

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9700e-003	0.2443	0.0650	1.0800e-003	0.0308	2.0000e-003	0.0328	8.4700e-003	1.9100e-003	0.0104	0.0000	108.0262	108.0262	5.4400e-003	0.0172	113.2816
Vendor	1.2200e-003	0.0462	0.0163	2.1000e-004	6.9100e-003	2.7000e-004	7.1800e-003	1.9900e-003	2.6000e-004	2.2500e-003	0.0000	20.8676	20.8676	6.3000e-004	3.0200e-003	21.7845
Worker	0.0186	0.0129	0.1574	4.8000e-004	0.0553	3.0000e-004	0.0556	0.0147	2.8000e-004	0.0150	0.0000	44.2686	44.2686	1.3000e-003	1.2200e-003	44.6645
Total	0.0238	0.3034	0.2387	1.7700e-003	0.0930	2.5700e-003	0.0956	0.0251	2.4500e-003	0.0276	0.0000	173.1624	173.1624	7.3700e-003	0.0214	179.7306

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4588	4.1738	5.7002	9.9000e-003		0.2010	0.2010		0.1896	0.1896	0.0000	859.7235	859.7235	0.2127	0.0000	865.0413
Total	0.4588	4.1738	5.7002	9.9000e-003		0.2010	0.2010		0.1896	0.1896	0.0000	859.7235	859.7235	0.2127	0.0000	865.0413

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9700e-003	0.2443	0.0650	1.0800e-003	0.0308	2.0000e-003	0.0328	8.4700e-003	1.9100e-003	0.0104	0.0000	108.0262	108.0262	5.4400e-003	0.0172	113.2816
Vendor	1.2200e-003	0.0462	0.0163	2.1000e-004	6.9100e-003	2.7000e-004	7.1800e-003	1.9900e-003	2.6000e-004	2.2500e-003	0.0000	20.8676	20.8676	6.3000e-004	3.0200e-003	21.7845
Worker	0.0186	0.0129	0.1574	4.8000e-004	0.0553	3.0000e-004	0.0556	0.0147	2.8000e-004	0.0150	0.0000	44.2686	44.2686	1.3000e-003	1.2200e-003	44.6645
Total	0.0238	0.3034	0.2387	1.7700e-003	0.0930	2.5700e-003	0.0956	0.0251	2.4500e-003	0.0276	0.0000	173.1624	173.1624	7.3700e-003	0.0214	179.7306

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1085	0.9762	1.4240	2.4800e-003		0.0450	0.0450		0.0424	0.0424	0.0000	215.0230	215.0230	0.0530	0.0000	216.3489
Total	0.1085	0.9762	1.4240	2.4800e-003		0.0450	0.0450		0.0424	0.0424	0.0000	215.0230	215.0230	0.0530	0.0000	216.3489

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.8000e-004	0.0605	0.0165	2.6000e-004	7.7100e-003	5.0000e-004	8.2100e-003	2.1200e-003	4.8000e-004	2.6000e-003	0.0000	26.5313	26.5313	1.4000e-003	4.2200e-003	27.8246
Vendor	2.9000e-004	0.0115	3.9800e-003	5.0000e-005	1.7300e-003	7.0000e-005	1.7900e-003	5.0000e-004	7.0000e-005	5.6000e-004	0.0000	5.1260	5.1260	1.6000e-004	7.4000e-004	5.3514
Worker	4.3800e-003	2.9000e-003	0.0368	1.2000e-004	0.0138	7.0000e-005	0.0139	3.6700e-003	7.0000e-005	3.7400e-003	0.0000	10.7898	10.7898	3.0000e-004	2.8000e-004	10.8821
Total	5.6500e-003	0.0749	0.0573	4.3000e-004	0.0233	6.4000e-004	0.0239	6.2900e-003	6.2000e-004	6.9000e-003	0.0000	42.4472	42.4472	1.8600e-003	5.2400e-003	44.0581

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 P2 - AWP Pipeline and Lake Jennings Inlet - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1085	0.9762	1.4240	2.4800e-003		0.0450	0.0450		0.0424	0.0424	0.0000	215.0228	215.0228	0.0530	0.0000	216.3487
Total	0.1085	0.9762	1.4240	2.4800e-003		0.0450	0.0450		0.0424	0.0424	0.0000	215.0228	215.0228	0.0530	0.0000	216.3487

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.8000e-004	0.0605	0.0165	2.6000e-004	7.7100e-003	5.0000e-004	8.2100e-003	2.1200e-003	4.8000e-004	2.6000e-003	0.0000	26.5313	26.5313	1.4000e-003	4.2200e-003	27.8246
Vendor	2.9000e-004	0.0115	3.9800e-003	5.0000e-005	1.7300e-003	7.0000e-005	1.7900e-003	5.0000e-004	7.0000e-005	5.6000e-004	0.0000	5.1260	5.1260	1.6000e-004	7.4000e-004	5.3514
Worker	4.3800e-003	2.9000e-003	0.0368	1.2000e-004	0.0138	7.0000e-005	0.0139	3.6700e-003	7.0000e-005	3.7400e-003	0.0000	10.7898	10.7898	3.0000e-004	2.8000e-004	10.8821
Total	5.6500e-003	0.0749	0.0573	4.3000e-004	0.0233	6.4000e-004	0.0239	6.2900e-003	6.2000e-004	6.9000e-003	0.0000	42.4472	42.4472	1.8600e-003	5.2400e-003	44.0581

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1451	1.2999	1.5724	2.9500e-003		0.0624	0.0624		0.0597	0.0597	0.0000	254.4630	254.4630	0.0549	0.0000	255.8357
Total	0.1451	1.2999	1.5724	2.9500e-003		0.0624	0.0624		0.0597	0.0597	0.0000	254.4630	254.4630	0.0549	0.0000	255.8357

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4800e-003	0.0561	0.0132	2.1000e-004	5.7000e-003	5.2000e-004	6.2300e-003	1.5700e-003	5.0000e-004	2.0700e-003	0.0000	20.8752	20.8752	1.0000e-003	3.3200e-003	21.8885
Vendor	6.1000e-004	0.0151	4.9600e-003	6.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.3000e-004	1.5000e-004	6.8000e-004	0.0000	5.7348	5.7348	1.7000e-004	8.3000e-004	5.9874
Worker	5.5600e-003	4.0400e-003	0.0473	1.4000e-004	0.0154	9.0000e-005	0.0155	4.1000e-003	8.0000e-005	4.1800e-003	0.0000	12.6954	12.6954	4.0000e-004	3.7000e-004	12.8145
Total	7.6500e-003	0.0753	0.0655	4.1000e-004	0.0230	7.7000e-004	0.0238	6.2000e-003	7.3000e-004	6.9300e-003	0.0000	39.3053	39.3053	1.5700e-003	4.5200e-003	40.6904

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1451	1.2999	1.5724	2.9500e-003		0.0624	0.0624		0.0597	0.0597	0.0000	254.4627	254.4627	0.0549	0.0000	255.8354
Total	0.1451	1.2999	1.5724	2.9500e-003		0.0624	0.0624		0.0597	0.0597	0.0000	254.4627	254.4627	0.0549	0.0000	255.8354

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4800e-003	0.0561	0.0132	2.1000e-004	5.7000e-003	5.2000e-004	6.2300e-003	1.5700e-003	5.0000e-004	2.0700e-003	0.0000	20.8752	20.8752	1.0000e-003	3.3200e-003	21.8885
Vendor	6.1000e-004	0.0151	4.9600e-003	6.0000e-005	1.8300e-003	1.6000e-004	1.9900e-003	5.3000e-004	1.5000e-004	6.8000e-004	0.0000	5.7348	5.7348	1.7000e-004	8.3000e-004	5.9874
Worker	5.5600e-003	4.0400e-003	0.0473	1.4000e-004	0.0154	9.0000e-005	0.0155	4.1000e-003	8.0000e-005	4.1800e-003	0.0000	12.6954	12.6954	4.0000e-004	3.7000e-004	12.8145
Total	7.6500e-003	0.0753	0.0655	4.1000e-004	0.0230	7.7000e-004	0.0238	6.2000e-003	7.3000e-004	6.9300e-003	0.0000	39.3053	39.3053	1.5700e-003	4.5200e-003	40.6904

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3196	2.8227	3.7044	6.9700e-003		0.1286	0.1286		0.1230	0.1230	0.0000	601.7729	601.7729	0.1286	0.0000	604.9883
Total	0.3196	2.8227	3.7044	6.9700e-003		0.1286	0.1286		0.1230	0.1230	0.0000	601.7729	601.7729	0.1286	0.0000	604.9883

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7400e-003	0.1068	0.0284	4.7000e-004	0.0135	8.7000e-004	0.0144	3.7000e-003	8.4000e-004	4.5400e-003	0.0000	47.2421	47.2421	2.3800e-003	7.5100e-003	49.5404
Vendor	7.6000e-004	0.0289	0.0102	1.3000e-004	4.3200e-003	1.7000e-004	4.4900e-003	1.2500e-003	1.6000e-004	1.4100e-003	0.0000	13.0423	13.0423	3.9000e-004	1.8900e-003	13.6153
Worker	0.0123	8.5200e-003	0.1040	3.1000e-004	0.0365	2.0000e-004	0.0367	9.7000e-003	1.9000e-004	9.8800e-003	0.0000	29.2340	29.2340	8.6000e-004	8.1000e-004	29.4954
Total	0.0148	0.1442	0.1426	9.1000e-004	0.0543	1.2400e-003	0.0555	0.0147	1.1900e-003	0.0158	0.0000	89.5184	89.5184	3.6300e-003	0.0102	92.6511

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3196	2.8227	3.7044	6.9700e-003		0.1286	0.1286		0.1230	0.1230	0.0000	601.7722	601.7722	0.1286	0.0000	604.9876
Total	0.3196	2.8227	3.7044	6.9700e-003		0.1286	0.1286		0.1230	0.1230	0.0000	601.7722	601.7722	0.1286	0.0000	604.9876

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7400e-003	0.1068	0.0284	4.7000e-004	0.0135	8.7000e-004	0.0144	3.7000e-003	8.4000e-004	4.5400e-003	0.0000	47.2421	47.2421	2.3800e-003	7.5100e-003	49.5404
Vendor	7.6000e-004	0.0289	0.0102	1.3000e-004	4.3200e-003	1.7000e-004	4.4900e-003	1.2500e-003	1.6000e-004	1.4100e-003	0.0000	13.0423	13.0423	3.9000e-004	1.8900e-003	13.6153
Worker	0.0123	8.5200e-003	0.1040	3.1000e-004	0.0365	2.0000e-004	0.0367	9.7000e-003	1.9000e-004	9.8800e-003	0.0000	29.2340	29.2340	8.6000e-004	8.1000e-004	29.4954
Total	0.0148	0.1442	0.1426	9.1000e-004	0.0543	1.2400e-003	0.0555	0.0147	1.1900e-003	0.0158	0.0000	89.5184	89.5184	3.6300e-003	0.0102	92.6511

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3044	2.6639	3.7281	7.0300e-003		0.1152	0.1152		0.1101	0.1101	0.0000	606.7063	606.7063	0.1290	0.0000	609.9317
Total	0.3044	2.6639	3.7281	7.0300e-003		0.1152	0.1152		0.1101	0.1101	0.0000	606.7063	606.7063	0.1290	0.0000	609.9317

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7300e-003	0.1067	0.0290	4.7000e-004	0.0136	8.9000e-004	0.0145	3.7300e-003	8.5000e-004	4.5800e-003	0.0000	46.7678	46.7678	2.4700e-003	7.4400e-003	49.0476
Vendor	7.4000e-004	0.0289	0.0100	1.3000e-004	4.3500e-003	1.7000e-004	4.5200e-003	1.2600e-003	1.6000e-004	1.4200e-003	0.0000	12.9137	12.9137	4.1000e-004	1.8700e-003	13.4814
Worker	0.0117	7.7200e-003	0.0981	3.1000e-004	0.0368	1.9000e-004	0.0370	9.7700e-003	1.8000e-004	9.9500e-003	0.0000	28.7206	28.7206	7.9000e-004	7.6000e-004	28.9663
Total	0.0141	0.1433	0.1371	9.1000e-004	0.0547	1.2500e-003	0.0560	0.0148	1.1900e-003	0.0160	0.0000	88.4021	88.4021	3.6700e-003	0.0101	91.4952

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3044	2.6639	3.7281	7.0300e-003		0.1152	0.1152		0.1101	0.1101	0.0000	606.7056	606.7056	0.1290	0.0000	609.9310
Total	0.3044	2.6639	3.7281	7.0300e-003		0.1152	0.1152		0.1101	0.1101	0.0000	606.7056	606.7056	0.1290	0.0000	609.9310

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7300e-003	0.1067	0.0290	4.7000e-004	0.0136	8.9000e-004	0.0145	3.7300e-003	8.5000e-004	4.5800e-003	0.0000	46.7678	46.7678	2.4700e-003	7.4400e-003	49.0476
Vendor	7.4000e-004	0.0289	0.0100	1.3000e-004	4.3500e-003	1.7000e-004	4.5200e-003	1.2600e-003	1.6000e-004	1.4200e-003	0.0000	12.9137	12.9137	4.1000e-004	1.8700e-003	13.4814
Worker	0.0117	7.7200e-003	0.0981	3.1000e-004	0.0368	1.9000e-004	0.0370	9.7700e-003	1.8000e-004	9.9500e-003	0.0000	28.7206	28.7206	7.9000e-004	7.6000e-004	28.9663
Total	0.0141	0.1433	0.1371	9.1000e-004	0.0547	1.2500e-003	0.0560	0.0148	1.1900e-003	0.0160	0.0000	88.4021	88.4021	3.6700e-003	0.0101	91.4952

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0219	0.1902	0.2839	5.4000e-004		7.6800e-003	7.6800e-003		7.3400e-003	7.3400e-003	0.0000	46.3159	46.3159	9.7800e-003	0.0000	46.5603
Total	0.0219	0.1902	0.2839	5.4000e-004		7.6800e-003	7.6800e-003		7.3400e-003	7.3400e-003	0.0000	46.3159	46.3159	9.7800e-003	0.0000	46.5603

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	8.0400e-003	2.2500e-003	3.0000e-005	1.0400e-003	7.0000e-005	1.1000e-003	2.8000e-004	6.0000e-005	3.5000e-004	0.0000	3.4977	3.4977	1.9000e-004	5.6000e-004	3.6686
Vendor	5.0000e-005	2.1800e-003	7.5000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.5000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9670	0.9670	3.0000e-005	1.4000e-004	1.0095
Worker	8.4000e-004	5.3000e-004	7.0300e-003	2.0000e-005	2.8100e-003	1.0000e-005	2.8200e-003	7.5000e-004	1.0000e-005	7.6000e-004	0.0000	2.1389	2.1389	5.0000e-005	5.0000e-005	2.1564
Total	1.0200e-003	0.0108	0.0100	6.0000e-005	4.1800e-003	9.0000e-005	4.2700e-003	1.1300e-003	8.0000e-005	1.2200e-003	0.0000	6.6035	6.6035	2.7000e-004	7.5000e-004	6.8345

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 P3 - WRFM and RBS Pipeline - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0219	0.1902	0.2839	5.4000e-004		7.6800e-003	7.6800e-003		7.3400e-003	7.3400e-003	0.0000	46.3158	46.3158	9.7800e-003	0.0000	46.5603
Total	0.0219	0.1902	0.2839	5.4000e-004		7.6800e-003	7.6800e-003		7.3400e-003	7.3400e-003	0.0000	46.3158	46.3158	9.7800e-003	0.0000	46.5603

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	8.0400e-003	2.2500e-003	3.0000e-005	1.0400e-003	7.0000e-005	1.1000e-003	2.8000e-004	6.0000e-005	3.5000e-004	0.0000	3.4977	3.4977	1.9000e-004	5.6000e-004	3.6686
Vendor	5.0000e-005	2.1800e-003	7.5000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.5000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9670	0.9670	3.0000e-005	1.4000e-004	1.0095
Worker	8.4000e-004	5.3000e-004	7.0300e-003	2.0000e-005	2.8100e-003	1.0000e-005	2.8200e-003	7.5000e-004	1.0000e-005	7.6000e-004	0.0000	2.1389	2.1389	5.0000e-005	5.0000e-005	2.1564
Total	1.0200e-003	0.0108	0.0100	6.0000e-005	4.1800e-003	9.0000e-005	4.2700e-003	1.1300e-003	8.0000e-005	1.2200e-003	0.0000	6.6035	6.6035	2.7000e-004	7.5000e-004	6.8345

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 P3 - Influent Pump Station - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0643	0.6197	0.7882	1.3400e-003		0.0299	0.0299		0.0275	0.0275	0.0000	117.3393	117.3393	0.0380	0.0000	118.2881
Total	0.0643	0.6197	0.7882	1.3400e-003		0.0299	0.0299		0.0275	0.0275	0.0000	117.3393	117.3393	0.0380	0.0000	118.2881

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.3800e-003	6.3000e-004	1.0000e-005	3.0000e-004	2.0000e-005	3.2000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.0503	1.0503	5.0000e-005	1.7000e-004	1.1014
Vendor	1.2700e-003	0.0482	0.0170	2.2000e-004	7.2000e-003	2.8000e-004	7.4900e-003	2.0800e-003	2.7000e-004	2.3500e-003	0.0000	21.7706	21.7706	6.6000e-004	3.1500e-003	22.7271
Worker	2.9400e-003	2.0300e-003	0.0248	8.0000e-005	8.7000e-003	5.0000e-005	8.7500e-003	2.3100e-003	4.0000e-005	2.3600e-003	0.0000	6.9712	6.9712	2.0000e-004	1.9000e-004	7.0335
Total	4.2500e-003	0.0526	0.0424	3.1000e-004	0.0162	3.5000e-004	0.0166	4.4700e-003	3.3000e-004	4.8100e-003	0.0000	29.7920	29.7920	9.1000e-004	3.5100e-003	30.8619

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 P3 - Influent Pump Station - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0643	0.6197	0.7882	1.3400e-003		0.0299	0.0299		0.0275	0.0275	0.0000	117.3392	117.3392	0.0380	0.0000	118.2879
Total	0.0643	0.6197	0.7882	1.3400e-003		0.0299	0.0299		0.0275	0.0275	0.0000	117.3392	117.3392	0.0380	0.0000	118.2879

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.3800e-003	6.3000e-004	1.0000e-005	3.0000e-004	2.0000e-005	3.2000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.0503	1.0503	5.0000e-005	1.7000e-004	1.1014
Vendor	1.2700e-003	0.0482	0.0170	2.2000e-004	7.2000e-003	2.8000e-004	7.4900e-003	2.0800e-003	2.7000e-004	2.3500e-003	0.0000	21.7706	21.7706	6.6000e-004	3.1500e-003	22.7271
Worker	2.9400e-003	2.0300e-003	0.0248	8.0000e-005	8.7000e-003	5.0000e-005	8.7500e-003	2.3100e-003	4.0000e-005	2.3600e-003	0.0000	6.9712	6.9712	2.0000e-004	1.9000e-004	7.0335
Total	4.2500e-003	0.0526	0.0424	3.1000e-004	0.0162	3.5000e-004	0.0166	4.4700e-003	3.3000e-004	4.8100e-003	0.0000	29.7920	29.7920	9.1000e-004	3.5100e-003	30.8619

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 P3 - EMG Pump Station - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0578	0.5569	0.7083	1.2000e-003		0.0269	0.0269		0.0247	0.0247	0.0000	105.4432	105.4432	0.0341	0.0000	106.2957
Total	0.0578	0.5569	0.7083	1.2000e-003		0.0269	0.0269		0.0247	0.0247	0.0000	105.4432	105.4432	0.0341	0.0000	106.2957

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	2.9700e-003	7.9000e-004	1.0000e-005	3.8000e-004	2.0000e-005	4.0000e-004	1.0000e-004	2.0000e-005	1.3000e-004	0.0000	1.3152	1.3152	7.0000e-005	2.1000e-004	1.3792
Vendor	3.4000e-004	0.0130	4.5800e-003	6.0000e-005	1.9400e-003	8.0000e-005	2.0200e-003	5.6000e-004	7.0000e-005	6.3000e-004	0.0000	5.8690	5.8690	1.8000e-004	8.5000e-004	6.1269
Worker	2.6400e-003	1.8300e-003	0.0223	7.0000e-005	7.8200e-003	4.0000e-005	7.8600e-003	2.0800e-003	4.0000e-005	2.1200e-003	0.0000	6.2644	6.2644	1.8000e-004	1.7000e-004	6.3205
Total	3.0300e-003	0.0178	0.0277	1.4000e-004	0.0101	1.4000e-004	0.0103	2.7400e-003	1.3000e-004	2.8800e-003	0.0000	13.4487	13.4487	4.3000e-004	1.2300e-003	13.8265

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 P3 - EMG Pump Station - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0578	0.5569	0.7083	1.2000e-003		0.0269	0.0269		0.0247	0.0247	0.0000	105.4431	105.4431	0.0341	0.0000	106.2956
Total	0.0578	0.5569	0.7083	1.2000e-003		0.0269	0.0269		0.0247	0.0247	0.0000	105.4431	105.4431	0.0341	0.0000	106.2956

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	2.9700e-003	7.9000e-004	1.0000e-005	3.8000e-004	2.0000e-005	4.0000e-004	1.0000e-004	2.0000e-005	1.3000e-004	0.0000	1.3152	1.3152	7.0000e-005	2.1000e-004	1.3792
Vendor	3.4000e-004	0.0130	4.5800e-003	6.0000e-005	1.9400e-003	8.0000e-005	2.0200e-003	5.6000e-004	7.0000e-005	6.3000e-004	0.0000	5.8690	5.8690	1.8000e-004	8.5000e-004	6.1269
Worker	2.6400e-003	1.8300e-003	0.0223	7.0000e-005	7.8200e-003	4.0000e-005	7.8600e-003	2.0800e-003	4.0000e-005	2.1200e-003	0.0000	6.2644	6.2644	1.8000e-004	1.7000e-004	6.3205
Total	3.0300e-003	0.0178	0.0277	1.4000e-004	0.0101	1.4000e-004	0.0103	2.7400e-003	1.3000e-004	2.8800e-003	0.0000	13.4487	13.4487	4.3000e-004	1.2300e-003	13.8265

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 P3 - EMG Pump Station - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4500e-003	0.0606	0.0833	1.4000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	12.4405	12.4405	4.0200e-003	0.0000	12.5411
Total	6.4500e-003	0.0606	0.0833	1.4000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	12.4405	12.4405	4.0200e-003	0.0000	12.5411

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.5000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1524	0.1524	1.0000e-005	2.0000e-005	0.1598
Vendor	4.0000e-005	1.5200e-003	5.3000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.4000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6802	0.6802	2.0000e-005	1.0000e-004	0.7101
Worker	2.9000e-004	1.9000e-004	2.4600e-003	1.0000e-005	9.2000e-004	0.0000	9.3000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7204	0.7204	2.0000e-005	2.0000e-005	0.7265
Total	3.4000e-004	2.0600e-003	3.0800e-003	2.0000e-005	1.1900e-003	1.0000e-005	1.2200e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	1.5530	1.5530	5.0000e-005	1.4000e-004	1.5965

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 P3 - EMG Pump Station - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4500e-003	0.0606	0.0833	1.4000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	12.4405	12.4405	4.0200e-003	0.0000	12.5411
Total	6.4500e-003	0.0606	0.0833	1.4000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	12.4405	12.4405	4.0200e-003	0.0000	12.5411

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.5000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1524	0.1524	1.0000e-005	2.0000e-005	0.1598
Vendor	4.0000e-005	1.5200e-003	5.3000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.4000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6802	0.6802	2.0000e-005	1.0000e-004	0.7101
Worker	2.9000e-004	1.9000e-004	2.4600e-003	1.0000e-005	9.2000e-004	0.0000	9.3000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7204	0.7204	2.0000e-005	2.0000e-005	0.7265
Total	3.4000e-004	2.0600e-003	3.0800e-003	2.0000e-005	1.1900e-003	1.0000e-005	1.2200e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	1.5530	1.5530	5.0000e-005	1.4000e-004	1.5965

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 P2 - Dechlorination Station - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1112	1.1420	1.2411	2.3000e-003		0.0491	0.0491		0.0459	0.0459	0.0000	200.7766	200.7766	0.0543	0.0000	202.1350
Total	0.1112	1.1420	1.2411	2.3000e-003		0.0491	0.0491		0.0459	0.0459	0.0000	200.7766	200.7766	0.0543	0.0000	202.1350

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	7.1100e-003	1.8900e-003	3.0000e-005	9.0000e-004	6.0000e-005	9.6000e-004	2.5000e-004	6.0000e-005	3.0000e-004	0.0000	3.1459	3.1459	1.6000e-004	5.0000e-004	3.2990
Vendor	2.3000e-004	8.6600e-003	3.0500e-003	4.0000e-005	1.2900e-003	5.0000e-005	1.3500e-003	3.7000e-004	5.0000e-005	4.2000e-004	0.0000	3.9127	3.9127	1.2000e-004	5.7000e-004	4.0846
Worker	4.4000e-003	3.0400e-003	0.0371	1.1000e-004	0.0130	7.0000e-005	0.0131	3.4600e-003	7.0000e-005	3.5300e-003	0.0000	10.4407	10.4407	3.1000e-004	2.9000e-004	10.5341
Total	4.7500e-003	0.0188	0.0421	1.8000e-004	0.0152	1.8000e-004	0.0154	4.0800e-003	1.8000e-004	4.2500e-003	0.0000	17.4993	17.4993	5.9000e-004	1.3600e-003	17.9176

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 P2 - Dechlorination Station - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1112	1.1420	1.2411	2.3000e-003		0.0491	0.0491		0.0459	0.0459	0.0000	200.7764	200.7764	0.0543	0.0000	202.1347
Total	0.1112	1.1420	1.2411	2.3000e-003		0.0491	0.0491		0.0459	0.0459	0.0000	200.7764	200.7764	0.0543	0.0000	202.1347

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	7.1100e-003	1.8900e-003	3.0000e-005	9.0000e-004	6.0000e-005	9.6000e-004	2.5000e-004	6.0000e-005	3.0000e-004	0.0000	3.1459	3.1459	1.6000e-004	5.0000e-004	3.2990
Vendor	2.3000e-004	8.6600e-003	3.0500e-003	4.0000e-005	1.2900e-003	5.0000e-005	1.3500e-003	3.7000e-004	5.0000e-005	4.2000e-004	0.0000	3.9127	3.9127	1.2000e-004	5.7000e-004	4.0846
Worker	4.4000e-003	3.0400e-003	0.0371	1.1000e-004	0.0130	7.0000e-005	0.0131	3.4600e-003	7.0000e-005	3.5300e-003	0.0000	10.4407	10.4407	3.1000e-004	2.9000e-004	10.5341
Total	4.7500e-003	0.0188	0.0421	1.8000e-004	0.0152	1.8000e-004	0.0154	4.0800e-003	1.8000e-004	4.2500e-003	0.0000	17.4993	17.4993	5.9000e-004	1.3600e-003	17.9176

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 P2 - Dechlorination Station - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0702	0.7054	0.8284	1.5400e-003		0.0294	0.0294		0.0275	0.0275	0.0000	134.3759	134.3759	0.0363	0.0000	135.2829
Total	0.0702	0.7054	0.8284	1.5400e-003		0.0294	0.0294		0.0275	0.0275	0.0000	134.3759	134.3759	0.0363	0.0000	135.2829

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	4.7200e-003	1.2800e-003	2.0000e-005	6.0000e-004	4.0000e-005	6.4000e-004	1.7000e-004	4.0000e-005	2.0000e-004	0.0000	2.0683	2.0683	1.1000e-004	3.3000e-004	2.1691
Vendor	1.5000e-004	5.7500e-003	2.0000e-003	3.0000e-005	8.7000e-004	3.0000e-005	9.0000e-004	2.5000e-004	3.0000e-005	2.8000e-004	0.0000	2.5729	2.5729	8.0000e-005	3.7000e-004	2.6860
Worker	2.7700e-003	1.8300e-003	0.0233	7.0000e-005	8.7200e-003	5.0000e-005	8.7700e-003	2.3200e-003	4.0000e-005	2.3600e-003	0.0000	6.8121	6.8121	1.9000e-004	1.8000e-004	6.8704
Total	3.0000e-003	0.0123	0.0265	1.2000e-004	0.0102	1.2000e-004	0.0103	2.7400e-003	1.1000e-004	2.8400e-003	0.0000	11.4533	11.4533	3.8000e-004	8.8000e-004	11.7255

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 P2 - Dechlorination Station - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0702	0.7054	0.8284	1.5400e-003		0.0294	0.0294		0.0275	0.0275	0.0000	134.3758	134.3758	0.0363	0.0000	135.2828
Total	0.0702	0.7054	0.8284	1.5400e-003		0.0294	0.0294		0.0275	0.0275	0.0000	134.3758	134.3758	0.0363	0.0000	135.2828

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	4.7200e-003	1.2800e-003	2.0000e-005	6.0000e-004	4.0000e-005	6.4000e-004	1.7000e-004	4.0000e-005	2.0000e-004	0.0000	2.0683	2.0683	1.1000e-004	3.3000e-004	2.1691
Vendor	1.5000e-004	5.7500e-003	2.0000e-003	3.0000e-005	8.7000e-004	3.0000e-005	9.0000e-004	2.5000e-004	3.0000e-005	2.8000e-004	0.0000	2.5729	2.5729	8.0000e-005	3.7000e-004	2.6860
Worker	2.7700e-003	1.8300e-003	0.0233	7.0000e-005	8.7200e-003	5.0000e-005	8.7700e-003	2.3200e-003	4.0000e-005	2.3600e-003	0.0000	6.8121	6.8121	1.9000e-004	1.8000e-004	6.8704
Total	3.0000e-003	0.0123	0.0265	1.2000e-004	0.0102	1.2000e-004	0.0103	2.7400e-003	1.1000e-004	2.8400e-003	0.0000	11.4533	11.4533	3.8000e-004	8.8000e-004	11.7255

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 P4 - Triple and Dual Alignments - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2104	1.7366	2.2404	5.1000e-003		0.0723	0.0723		0.0682	0.0682	0.0000	443.1089	443.1089	0.1154	0.0000	445.9927
Total	0.2104	1.7366	2.2404	5.1000e-003		0.0723	0.0723		0.0682	0.0682	0.0000	443.1089	443.1089	0.1154	0.0000	445.9927

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5000e-004	9.6100e-003	3.3300e-003	4.0000e-005	1.4500e-003	6.0000e-005	1.5000e-003	4.2000e-004	5.0000e-005	4.7000e-004	0.0000	4.2980	4.2980	1.4000e-004	6.2000e-004	4.4869
Worker	6.2400e-003	4.1300e-003	0.0525	1.6000e-004	0.0197	1.0000e-004	0.0198	5.2300e-003	1.0000e-004	5.3200e-003	0.0000	15.3625	15.3625	4.2000e-004	4.1000e-004	15.4939
Total	6.4900e-003	0.0137	0.0558	2.0000e-004	0.0211	1.6000e-004	0.0213	5.6500e-003	1.5000e-004	5.7900e-003	0.0000	19.6605	19.6605	5.6000e-004	1.0300e-003	19.9809

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 P4 - Triple and Dual Alignments - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2104	1.7366	2.2404	5.1000e-003		0.0723	0.0723		0.0682	0.0682	0.0000	443.1084	443.1084	0.1154	0.0000	445.9922
Total	0.2104	1.7366	2.2404	5.1000e-003		0.0723	0.0723		0.0682	0.0682	0.0000	443.1084	443.1084	0.1154	0.0000	445.9922

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5000e-004	9.6100e-003	3.3300e-003	4.0000e-005	1.4500e-003	6.0000e-005	1.5000e-003	4.2000e-004	5.0000e-005	4.7000e-004	0.0000	4.2980	4.2980	1.4000e-004	6.2000e-004	4.4869
Worker	6.2400e-003	4.1300e-003	0.0525	1.6000e-004	0.0197	1.0000e-004	0.0198	5.2300e-003	1.0000e-004	5.3200e-003	0.0000	15.3625	15.3625	4.2000e-004	4.1000e-004	15.4939
Total	6.4900e-003	0.0137	0.0558	2.0000e-004	0.0211	1.6000e-004	0.0213	5.6500e-003	1.5000e-004	5.7900e-003	0.0000	19.6605	19.6605	5.6000e-004	1.0300e-003	19.9809

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 P4 - Triple and Dual Alignments - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4751	3.7739	5.3342	0.0122		0.1500	0.1500		0.1416	0.1416	0.0000	1,060.9079	1,060.9079	0.2752	0.0000	1,067.7886
Total	0.4751	3.7739	5.3342	0.0122		0.1500	0.1500		0.1416	0.1416	0.0000	1,060.9079	1,060.9079	0.2752	0.0000	1,067.7886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0228	7.8500e-003	1.0000e-004	3.4700e-003	1.4000e-004	3.6000e-003	1.0000e-003	1.3000e-004	1.1300e-003	0.0000	10.0953	10.0953	3.3000e-004	1.4600e-003	10.5393
Worker	0.0141	8.9600e-003	0.1179	3.8000e-004	0.0471	2.4000e-004	0.0473	0.0125	2.2000e-004	0.0127	0.0000	35.8871	35.8871	9.2000e-004	9.1000e-004	36.1817
Total	0.0147	0.0318	0.1258	4.8000e-004	0.0506	3.8000e-004	0.0509	0.0135	3.5000e-004	0.0139	0.0000	45.9824	45.9824	1.2500e-003	2.3700e-003	46.7210

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 P4 - Triple and Dual Alignments - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4751	3.7739	5.3342	0.0122		0.1500	0.1500		0.1416	0.1416	0.0000	1,060.9066	1,060.9066	0.2752	0.0000	1,067.7874
Total	0.4751	3.7739	5.3342	0.0122		0.1500	0.1500		0.1416	0.1416	0.0000	1,060.9066	1,060.9066	0.2752	0.0000	1,067.7874

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0228	7.8500e-003	1.0000e-004	3.4700e-003	1.4000e-004	3.6000e-003	1.0000e-003	1.3000e-004	1.1300e-003	0.0000	10.0953	10.0953	3.3000e-004	1.4600e-003	10.5393
Worker	0.0141	8.9600e-003	0.1179	3.8000e-004	0.0471	2.4000e-004	0.0473	0.0125	2.2000e-004	0.0127	0.0000	35.8871	35.8871	9.2000e-004	9.1000e-004	36.1817
Total	0.0147	0.0318	0.1258	4.8000e-004	0.0506	3.8000e-004	0.0509	0.0135	3.5000e-004	0.0139	0.0000	45.9824	45.9824	1.2500e-003	2.3700e-003	46.7210

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 P3 - RBS Lift Station - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1384	1.2722	1.6958	3.7200e-003		0.0550	0.0550		0.0518	0.0518	0.0000	324.7760	324.7760	0.0841	0.0000	326.8782
Total	0.1384	1.2722	1.6958	3.7200e-003		0.0550	0.0550		0.0518	0.0518	0.0000	324.7760	324.7760	0.0841	0.0000	326.8782

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0289	0.0100	1.3000e-004	4.3500e-003	1.7000e-004	4.5200e-003	1.2600e-003	1.6000e-004	1.4200e-003	0.0000	12.9137	12.9137	4.1000e-004	1.8700e-003	13.4814
Worker	5.0000e-003	3.3100e-003	0.0420	1.3000e-004	0.0158	8.0000e-005	0.0158	4.1900e-003	8.0000e-005	4.2600e-003	0.0000	12.3088	12.3088	3.4000e-004	3.3000e-004	12.4141
Total	5.7400e-003	0.0322	0.0520	2.6000e-004	0.0201	2.5000e-004	0.0204	5.4500e-003	2.4000e-004	5.6800e-003	0.0000	25.2225	25.2225	7.5000e-004	2.2000e-003	25.8955

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 P3 - RBS Lift Station - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1384	1.2722	1.6958	3.7200e-003		0.0550	0.0550		0.0518	0.0518	0.0000	324.7756	324.7756	0.0841	0.0000	326.8778
Total	0.1384	1.2722	1.6958	3.7200e-003		0.0550	0.0550		0.0518	0.0518	0.0000	324.7756	324.7756	0.0841	0.0000	326.8778

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0289	0.0100	1.3000e-004	4.3500e-003	1.7000e-004	4.5200e-003	1.2600e-003	1.6000e-004	1.4200e-003	0.0000	12.9137	12.9137	4.1000e-004	1.8700e-003	13.4814
Worker	5.0000e-003	3.3100e-003	0.0420	1.3000e-004	0.0158	8.0000e-005	0.0158	4.1900e-003	8.0000e-005	4.2600e-003	0.0000	12.3088	12.3088	3.4000e-004	3.3000e-004	12.4141
Total	5.7400e-003	0.0322	0.0520	2.6000e-004	0.0201	2.5000e-004	0.0204	5.4500e-003	2.4000e-004	5.6800e-003	0.0000	25.2225	25.2225	7.5000e-004	2.2000e-003	25.8955

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 P4 - RBL Extension - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3480	2.9099	4.4242	9.1900e-003		0.1199	0.1199		0.1134	0.1134	0.0000	800.6552	800.6552	0.1969	0.0000	805.5779
Total	0.3480	2.9099	4.4242	9.1900e-003		0.1199	0.1199		0.1134	0.1134	0.0000	800.6552	800.6552	0.1969	0.0000	805.5779

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0227	7.8200e-003	1.0000e-004	3.4500e-003	1.4000e-004	3.5900e-003	1.0000e-003	1.3000e-004	1.1300e-003	0.0000	10.0567	10.0567	3.3000e-004	1.4600e-003	10.4989
Worker	0.0125	7.9300e-003	0.1044	3.4000e-004	0.0417	2.1000e-004	0.0419	0.0111	1.9000e-004	0.0113	0.0000	31.7774	31.7774	8.1000e-004	8.1000e-004	32.0383
Total	0.0130	0.0306	0.1123	4.4000e-004	0.0452	3.5000e-004	0.0455	0.0121	3.2000e-004	0.0124	0.0000	41.8341	41.8341	1.1400e-003	2.2700e-003	42.5372

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 P4 - RBL Extension - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3480	2.9099	4.4242	9.1900e-003		0.1199	0.1199		0.1134	0.1134	0.0000	800.6543	800.6543	0.1969	0.0000	805.5770
Total	0.3480	2.9099	4.4242	9.1900e-003		0.1199	0.1199		0.1134	0.1134	0.0000	800.6543	800.6543	0.1969	0.0000	805.5770

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0227	7.8200e-003	1.0000e-004	3.4500e-003	1.4000e-004	3.5900e-003	1.0000e-003	1.3000e-004	1.1300e-003	0.0000	10.0567	10.0567	3.3000e-004	1.4600e-003	10.4989
Worker	0.0125	7.9300e-003	0.1044	3.4000e-004	0.0417	2.1000e-004	0.0419	0.0111	1.9000e-004	0.0113	0.0000	31.7774	31.7774	8.1000e-004	8.1000e-004	32.0383
Total	0.0130	0.0306	0.1123	4.4000e-004	0.0452	3.5000e-004	0.0455	0.0121	3.2000e-004	0.0124	0.0000	41.8341	41.8341	1.1400e-003	2.2700e-003	42.5372

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 P4 - Mission Valley Lift Station - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2417	1.9295	3.0142	6.0700e-003		0.0804	0.0804		0.0760	0.0760	0.0000	529.5944	529.5944	0.1307	0.0000	532.8620
Total	0.2417	1.9295	3.0142	6.0700e-003		0.0804	0.0804		0.0760	0.0760	0.0000	529.5944	529.5944	0.1307	0.0000	532.8620

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1200e-003	0.0689	0.0193	3.0000e-004	8.8900e-003	5.8000e-004	9.4700e-003	2.4400e-003	5.5000e-004	3.0000e-003	0.0000	29.9791	29.9791	1.6700e-003	4.7700e-003	31.4437
Vendor	5.7000e-004	0.0227	7.8200e-003	1.0000e-004	3.4500e-003	1.4000e-004	3.5900e-003	1.0000e-003	1.3000e-004	1.1300e-003	0.0000	10.0567	10.0567	3.3000e-004	1.4600e-003	10.4989
Worker	7.1700e-003	4.5600e-003	0.0601	1.9000e-004	0.0240	1.2000e-004	0.0241	6.3700e-003	1.1000e-004	6.4800e-003	0.0000	18.2720	18.2720	4.7000e-004	4.6000e-004	18.4220
Total	8.8600e-003	0.0961	0.0871	5.9000e-004	0.0363	8.4000e-004	0.0372	9.8100e-003	7.9000e-004	0.0106	0.0000	58.3077	58.3077	2.4700e-003	6.6900e-003	60.3646

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 P4 - Mission Valley Lift Station - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2417	1.9295	3.0142	6.0700e-003		0.0804	0.0804		0.0760	0.0760	0.0000	529.5938	529.5938	0.1307	0.0000	532.8613
Total	0.2417	1.9295	3.0142	6.0700e-003		0.0804	0.0804		0.0760	0.0760	0.0000	529.5938	529.5938	0.1307	0.0000	532.8613

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1200e-003	0.0689	0.0193	3.0000e-004	8.8900e-003	5.8000e-004	9.4700e-003	2.4400e-003	5.5000e-004	3.0000e-003	0.0000	29.9791	29.9791	1.6700e-003	4.7700e-003	31.4437
Vendor	5.7000e-004	0.0227	7.8200e-003	1.0000e-004	3.4500e-003	1.4000e-004	3.5900e-003	1.0000e-003	1.3000e-004	1.1300e-003	0.0000	10.0567	10.0567	3.3000e-004	1.4600e-003	10.4989
Worker	7.1700e-003	4.5600e-003	0.0601	1.9000e-004	0.0240	1.2000e-004	0.0241	6.3700e-003	1.1000e-004	6.4800e-003	0.0000	18.2720	18.2720	4.7000e-004	4.6000e-004	18.4220
Total	8.8600e-003	0.0961	0.0871	5.9000e-004	0.0363	8.4000e-004	0.0372	9.8100e-003	7.9000e-004	0.0106	0.0000	58.3077	58.3077	2.4700e-003	6.6900e-003	60.3646

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

6.2 Area by SubCategory

Unmitigated

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

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

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

7.0 Water Detail

7.1 Mitigation Measures Water

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

East County Advanced Water Purification - Construction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

East County Advanced Water Purification - P4 Operations

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	21.78	1000sqft	0.50	21,780.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - approximate anticipated lift station footprint size.

Construction Phase - Run for operational emissions only.

Vehicle Trips - Daily trips to and from the site for operations/maintenance.

Area Coating - No operational architectural coatings anticipated.

Energy Use - Lift station electricity estimate provided by Orion.

Water And Wastewater - No water required for project operations.

Solid Waste - Negligible solid waste produced during operations.

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps - Generator assumed to be tested for 15 minutes once per month.

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	10890	0
tblAreaCoating	Area_Nonresidential_Interior	32670	0
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	3/14/2022	2/28/2022
tblEnergyUse	LightingElect	2.83	0.00
tblEnergyUse	NT24E	4.27	6.62
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.08	0.00
tblEnergyUse	T24NG	4.27	0.00
tblSolidWaste	SolidWasteGenerationRate	27.01	0.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	20.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.25
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	3.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	WD_TR	4.96	0.09
tblWater	IndoorWaterUseRate	5,036,625.00	0.00

2.0 Emissions Summary

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4663	2.0000e-005	2.2200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.7700e-003	4.7700e-003	1.0000e-005		5.0800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.3700e-003	5.9700e-003	0.0509	1.1000e-004	0.0121	8.0000e-005	0.0121	3.2100e-003	8.0000e-005	3.2900e-003		11.0544	11.0544	7.8000e-004	4.9000e-004	11.2215
Stationary	0.0440	4.2400e-003	0.1146	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		2.8106	2.8106	5.8800e-003		2.9575
Total	0.5157	0.0102	0.1677	1.3000e-004	0.0121	3.3000e-004	0.0124	3.2100e-003	3.3000e-004	3.5400e-003		13.8697	13.8697	6.6700e-003	4.9000e-004	14.1841

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4663	2.0000e-005	2.2200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.7700e-003	4.7700e-003	1.0000e-005		5.0800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.3700e-003	5.9700e-003	0.0509	1.1000e-004	0.0121	8.0000e-005	0.0121	3.2100e-003	8.0000e-005	3.2900e-003		11.0544	11.0544	7.8000e-004	4.9000e-004	11.2215
Stationary	0.0440	4.2400e-003	0.1146	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		2.8106	2.8106	5.8800e-003		2.9575
Total	0.5157	0.0102	0.1677	1.3000e-004	0.0121	3.3000e-004	0.0124	3.2100e-003	3.3000e-004	3.5400e-003		13.8697	13.8697	6.6700e-003	4.9000e-004	14.1841

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	2/28/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3700e-003	5.9700e-003	0.0509	1.1000e-004	0.0121	8.0000e-005	0.0121	3.2100e-003	8.0000e-005	3.2900e-003		11.0544	11.0544	7.8000e-004	4.9000e-004	11.2215
Unmitigated	5.3700e-003	5.9700e-003	0.0509	1.1000e-004	0.0121	8.0000e-005	0.0121	3.2100e-003	8.0000e-005	3.2900e-003		11.0544	11.0544	7.8000e-004	4.9000e-004	11.2215

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1.96	0.00	0.00	4,088	4,088
Total	1.96	0.00	0.00	4,088	4,088

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4663	2.0000e-005	2.2200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.7700e-003	4.7700e-003	1.0000e-005		5.0800e-003
Unmitigated	0.4663	2.0000e-005	2.2200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.7700e-003	4.7700e-003	1.0000e-005		5.0800e-003

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4661					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.2200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7700e-003	4.7700e-003	1.0000e-005	5.0800e-003
Total	0.4663	2.0000e-005	2.2200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7700e-003	4.7700e-003	1.0000e-005	5.0800e-003

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4661					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.2200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7700e-003	4.7700e-003	1.0000e-005	5.0800e-003
Total	0.4663	2.0000e-005	2.2200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7700e-003	4.7700e-003	1.0000e-005	5.0800e-003

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

East County Advanced Water Purification - P4 Operations - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.25	3	20	0.73	CNG

Boilers

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

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - CNG (0 - 500 HP)	0.0440	4.2400e-003	0.1146	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		2.8106	2.8106	5.8800e-003		2.9575
Total	0.0440	4.2400e-003	0.1146	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		2.8106	2.8106	5.8800e-003		2.9575

11.0 Vegetation

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

East County Advanced Water Purification - P4 Operations

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	21.78	1000sqft	0.50	21,780.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - approximate anticipated lift station footprint size.

Construction Phase - Run for operational emissions only.

Vehicle Trips - Daily trips to and from the site for operations/maintenance.

Area Coating - No operational architectural coatings anticipated.

Energy Use - Lift station electricity estimate provided by Orion.

Water And Wastewater - No water required for project operations.

Solid Waste - Negligible solid waste produced during operations.

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps - Generator assumed to be tested for 15 minutes once per month.

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	10890	0
tblAreaCoating	Area_Nonresidential_Interior	32670	0
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	3/14/2022	2/28/2022
tblEnergyUse	LightingElect	2.83	0.00
tblEnergyUse	NT24E	4.27	6.62
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.08	0.00
tblEnergyUse	T24NG	4.27	0.00
tblSolidWaste	SolidWasteGenerationRate	27.01	0.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	20.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.25
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	3.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	WD_TR	4.96	0.09
tblWater	IndoorWaterUseRate	5,036,625.00	0.00

2.0 Emissions Summary

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

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

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

		Highest		
--	--	---------	--	--

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0851	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.9000e-004	3.9000e-004	0.0000	0.0000	4.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	35.3150	35.3150	2.1600e-003	2.6000e-004	35.4469
Mobile	6.9000e-004	7.7000e-004	6.4800e-003	1.0000e-005	1.5300e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3110	1.3110	9.0000e-005	6.0000e-005	1.3305
Stationary	2.6000e-004	3.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0153	0.0153	3.0000e-005	0.0000	0.0161
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0860	8.0000e-004	7.3700e-003	1.0000e-005	1.5300e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	36.6417	36.6417	2.2800e-003	3.2000e-004	36.7939

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0851	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.9000e-004	3.9000e-004	0.0000	0.0000	4.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	35.3150	35.3150	2.1600e-003	2.6000e-004	35.4469
Mobile	6.9000e-004	7.7000e-004	6.4800e-003	1.0000e-005	1.5300e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3110	1.3110	9.0000e-005	6.0000e-005	1.3305
Stationary	2.6000e-004	3.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0153	0.0153	3.0000e-005	0.0000	0.0161
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0860	8.0000e-004	7.3700e-003	1.0000e-005	1.5300e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	36.6417	36.6417	2.2800e-003	3.2000e-004	36.7939

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	2/28/2022	5	0	

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.9000e-004	7.7000e-004	6.4800e-003	1.0000e-005	1.5300e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3110	1.3110	9.0000e-005	6.0000e-005	1.3305
Unmitigated	6.9000e-004	7.7000e-004	6.4800e-003	1.0000e-005	1.5300e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3110	1.3110	9.0000e-005	6.0000e-005	1.3305

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1.96	0.00	0.00	4,088	4,088
Total	1.96	0.00	0.00	4,088	4,088

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	144184	35.3150	2.1600e-003	2.6000e-004	35.4469
Total		35.3150	2.1600e-003	2.6000e-004	35.4469

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	144184	35.3150	2.1600e-003	2.6000e-004	35.4469
Total		35.3150	2.1600e-003	2.6000e-004	35.4469

6.0 Area Detail

6.1 Mitigation Measures Area

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0851	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.9000e-004	3.9000e-004	0.0000	0.0000	4.1000e-004
Unmitigated	0.0851	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.9000e-004	3.9000e-004	0.0000	0.0000	4.1000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0851					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.9000e-004	3.9000e-004	0.0000	0.0000	4.1000e-004
Total	0.0851	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.9000e-004	3.9000e-004	0.0000	0.0000	4.1000e-004

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0851					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.9000e-004	3.9000e-004	0.0000	0.0000	4.1000e-004
Total	0.0851	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.9000e-004	3.9000e-004	0.0000	0.0000	4.1000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

East County Advanced Water Purification - P4 Operations - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.25	3	20	0.73	CNG

Boilers

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

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - CNG (0 - 500 HP)	2.6000e-004	3.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0153	0.0153	3.0000e-005	0.0000	0.0161
Total	2.6000e-004	3.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0153	0.0153	3.0000e-005	0.0000	0.0161

11.0 Vegetation