

DATE: May 28, 2024
TO: OC San Board of Directors
FROM: Tom Meregillano, Environmental Protection Manager
SUBJECT: Receive and File – Air Quality Annual Emissions Report (AER)

In accordance with SCAQMD Rule 301(e), the Orange County Sanitation District (OC San) is required to report process emissions from all operations within Reclamation Plant 1 and Treatment 2 and pay any applicable fees based on the amount of air contaminants emitted. AERs for Plants 1 and 2 were submitted on March 19, 2024. The following footnotes summarize the reported emissions and associated fees.

- Reclamation Plant 1 reported emissions include:
 - 16.4 tons of organic gas emissions mostly contributed to wastewater treatment process;
 - 9.81 tons of nitrogen oxide emissions resulting from combustion sources;
 - 8.32 tons of carbon monoxide emissions resulting from combustion sources;
 - 0.84 tons of particulate matter emissions resulting from combustion sources;
 - 0.04 tons of sulfur oxides emissions resulting from combustion sources; and
 - Toxics emissions based on device subject fees.

- Treatment Plant 2 reported emissions include:
 - 10.61 tons of organic gas emissions mostly contributed to wastewater treatment process;
 - 12.79 tons of nitrogen oxide emissions resulting from combustion sources;
 - 11.28 tons of carbon monoxide emissions resulting from combustion sources;
 - 0.92 tons of particulate matter emissions resulting from combustion sources;
 - 0.05 tons of sulfur oxides emissions resulting from combustion sources; and
 - Toxics emissions based on device subject fees.

If you have any questions, please contact Randa AbuShaban, Sr. Regulatory Specialist at (714) 593-7413 or by email at rabushaban@ocsan.gov.

Attachments



Air Quality Annual Emissions Report (AER)

Program Year 2023





South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **03/19/2024**

Facility Id: **17301**
Facility Name **ORANGE COUNTY SANITATION DISTRICT**
Facility Type: **WasteWater Treatment - Municipal**

StatusUpdate

Facility ID	17301
Facility Shutdown Date	N/A
Change of Ownership Date	N/A
Change in Equipment Location Date	N/A
Emissions are zero for this year's report, or emissions reduced by 50%	N/A
Exemption Request	N/A
Use of alternative Calculation methodology	N/A
Other	N/A
Refund Request	N/A
Data is Confidential	NO



South Coast

AQMD

Annual Emission Report

Reporting Year:

2023

Print Date:

03/19/2024

Facility Id: **17301**

Facility Name: **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

External Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units	Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES106		494460	P1	Boiler 10-100 MMBTU/HR	Digester Gas (Biogas)	1.900000	mmscf	EF lbs/ mmscf	2.476000		6.809000	0.130000	0.004000	1.238000
								Emissions lbs	4.70		12.94	0.25	0.01	2.35
ES106		494460	P2	Boiler 10-100 MMBTU/HR	Natural Gas	1.910000	mmscf	EF lbs/ mmscf	5.500000		100.000000	0.600000	84.000000	7.600000
								Emissions lbs	10.51		191.00	1.15	160.44	14.52
ES108		429662	P1	Flare	Digester Gas (Biogas)	0.950000	mmscf	EF lbs/ mmscf	7.200000		35.600000	0.008000	32.800000	3.900000
								Emissions lbs	6.84		33.82	0.01	31.16	3.71
ES117			P1	Boiler <10 MMBTU/HR	Natural Gas	25.470000	mmscf	EF lbs/ mmscf	5.500000		100.000000	0.600000	84.000000	7.600000
								Emissions lbs	140.09		2,547.00	15.28	2,139.48	193.57

Total Emissions	lbs	162.13		2,784.76	16.68	2,331.09	214.15
Total Emissions	tons	0.08	0.00	1.39	0.01	1.17	0.11



South Coast

AQMD

Annual Emission Report

Reporting Year:

2023

Print Date:

03/19/2024

Facility Id: **17301**

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

Internal Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units	Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES95	546360	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	224.550000	mmscf	EF	lbs/ mmscf	2.710000		19.300000	0.020000	10.100000	0.640000
							Emissions	lbs	608.53		4,333.82	4.49	2,267.96	143.71
ES95	546360	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	32.920000	mmscf	EF	lbs/ mmscf	9.490000		26.000000	0.600000	16.700000	0.800000
							Emissions	lbs	312.41		855.92	19.75	549.76	26.34
ES96	546361	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	259.160000	mmscf	EF	lbs/ mmscf	2.780000		20.200000	0.020000	27.500000	1.650000
							Emissions	lbs	720.46		5,235.03	5.18	7,126.90	427.61
ES96	546361	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	44.280000	mmscf	EF	lbs/ mmscf	9.490000		26.000000	0.600000	16.700000	0.800000
							Emissions	lbs	420.22		1,151.28	26.57	739.48	35.42
ES97	546362	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	101.790000	mmscf	EF	lbs/ mmscf	6.840000		18.680000	0.070000	27.510000	6.020000
							Emissions	lbs	696.24		1,901.44	7.13	2,800.24	612.78
ES97	546362	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	6.800000	mmscf	EF	lbs/ mmscf	9.490000		26.000000	0.600000	16.700000	0.800000
							Emissions	lbs	64.53		176.80	4.08	113.56	5.44
ES98	133995	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.635000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	23.81		297.82	0.13	64.77	21.27

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES99		133994	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.580000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	21.75		272.02	0.12	59.16	19.43
ES100		134619	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.585000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	21.94		274.37	0.12	59.67	19.60
ES101		135464	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.490000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	18.38		229.81	0.10	49.98	16.42
ES102		428945	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	1.540000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	57.75		722.26	0.32	157.08	51.59
ES103		408166	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	1.650000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	61.88		773.85	0.35	168.30	55.28
ES104		06049A	P1	Turbines	Distillate Fuel Oil No. 2 (Diesel)	0.620000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	3.350000
								Emissions	lbs	23.25		290.78	0.13	63.24	2.08
ES105		06050A	P1	Turbines	Distillate Fuel Oil No. 2 (Diesel)	0.610000	M gal	EF	lbs/ M gal	35.700000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	21.78		286.09	0.13	62.22	20.44
ES114		619284	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Distillate Fuel Oil No. 2 (Diesel)	0.035250	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	5.025000
								Emissions	lbs	1.32		16.53	0.01	3.60	0.18
ES115		619285	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Distillate Fuel Oil No. 2 (Diesel)	0.025500	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	5.025000
								Emissions	lbs	0.96		11.96	0.01	2.60	0.13
ES116		619286	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Distillate Fuel Oil No. 2 (Diesel)	0.028500	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	5.025000
								Emissions	lbs	1.07		13.37	0.01	2.91	0.14
ES118			P1	Portable I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	3.754000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	140.78		1,760.63	0.79	382.91	125.76

Total Emissions	lbs	3,217.05		18,603.76	69.42	14,674.33	1,583.60
Total Emissions	tons	1.61	0.00	9.30	0.03	7.34	0.79



South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **03/19/2024**

Facility Id: **17301**
 Facility Name **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Spray Coating/Spray Booth Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units	Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES88		13973X	P1	Spray Booth	Coating : Coating of Metal Parts and Products : HVLP Application : Air Dried - Repair / Touch Up	Misc.	13.23000	gal	EF	lbs/ gal	1.470000				1.050000
									Emissions	lbs	19.45				1.39

Total Emissions	lbs	19.45					1.39
Total Emissions	tons	0.01	0.00	0.00	0.00	0.00	0.00



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Facility Id: **17301**
 Facility Name **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Other Use of Organics Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units	Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES94			P1	Coating (Flow / Dip / Roll / Hand Application)	Coating : Coating of Metal Parts and Products : Hand Application : Air Dried - Repair / Touch Up	Enamel Application	90.40000	gal	EF	lbs/ gal	0.548000				
									Emissions	lbs	49.54				
ES94			P2	Coating (Flow / Dip / Roll / Hand Application)	Coating : Coating of Metal Parts and Products : Hand Application : Air Dried - Repair / Touch Up	Structure components	263.50000	gal	EF	lbs/ gal	0.814000				
									Emissions	lbs	214.49				

Total Emissions	lbs	264.03					
Total Emissions	tons	0.13	0.00	0.00	0.00	0.00	0.00



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Facility Id: **17301**
 Facility Name **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Storage Tanks Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Product	Throughput	Units	Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES91			P1	Storage tank and Dispensing	Distillate fuel oil no. 2	1,500.000 000	M gal	EF	lbs/ M gal	0.028000				
								Emissions	lbs	42.00				

Total Emissions	lbs	42.00					
Total Emissions	tons	0.02	0.00	0.00	0.00	0.00	0.00



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Print Date: **03/19/2024**

Facility Id: **17301**
 Facility Name: **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Other Process Emissions Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Activity	Throughput	Units	Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM	Permit Equipment Description
ES89		568969	P1	Abrasive Blasting/Finishing : Metal Part : Abrasive Blasting : Other Material	6.200000	hour	EF	lbs/ hour					0.042000	
							Emissions	lbs					0.26	
ES90		615959	P1	Miscellaneous Operations and Services : POTW : Government : Entire Plant	123.0800 00	MMgal/d ay	EF	lbs/ MMgal/day	240.000000					
							Emissions	lbs	29,539.20					

Total Emissions	lbs	29,539.20					0.26	
Total Emissions	tons	14.77	0.00	0.00	0.00	0.00	0.00	



South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **03/19/2024**

Facility Id: **17301**
 Facility Name **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Criteria Pollutants Permitted Emissions Summary (Excluding PERP)

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.08	0.00	1.39	0.00	0.01	0.00	1.17	0.11
Internal Combustion	1.54	0.00	8.42	0.00	0.03	0.00	7.15	0.73
Spray Coating/ Spray Booth	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	14.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Permitted Emissions	16.40	0.00	9.81	0.00	0.04	0.00	8.32	0.84



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Annual Emission Report

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Facility Id: **17301**

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

Criteria Pollutants Non-Permitted Emissions Summary (Excluding PERP)

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Internal Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Non-Permitted Emissions	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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Annual Emission Report

Reporting Year: **2023**

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Facility Id: **17301**

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

Toxic Air Contaminants (TAC) / Ozone Depleting Compounds (ODC) Emissions and Fees Summary

For detailed TAC Records please see
related "AER TAC Report" Excel file



South Coast

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Annual Emission Report

Reporting Year: **2023**

Print Date: **03/19/2024**

Facility Id: **17301**

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

Other Toxic Air Contaminants (TAC) Emissions Summary Applicable to AB2588 Facility

For detailed TAC Records please see related "AER TAC Report" Excel file



South Coast

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Annual Emission Report

Reporting Year: **2023**

Facility Id: **17301**
 Facility Name: **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Print Date: **03/19/2024**

Total Emissions and Fees

Submittal Date: No later than March 19 2024	Total Permitted Emissions (tons)	Total Non- Permitted Emissions (tons)	Total RECLAIM Emissions (tons)	Total Emission (tons)	Total Emissions/ Subject To Fee (tons)	Emissions Fees Due
Organic Gasses	16.40	0.15		16.62	17.00	\$10,650.78
Specific Organics	0.00	0.00		0.00	0.00	\$0.00
Nitrogen Oxides	9.81	0.00	0.00	10.69	10.00	\$3,115.49
Sulfur Oxides	0.04	0.00	0.00	0.04	0.00	\$0.00
Carbon Monoxide	8.32	0.00		8.51	0.00	\$0.00
Particulate Matter	0.84	0.00		0.90	0.00	\$0.00
1. TOTAL EMISSION FEES FOR ALL CRITERIA POLLUTANTS						\$13,766.27
2. TOXIC AIR CONTAMINANTS/ OZONE DEPLETER FEES (Total amount from Form TACS or DC)						\$10,298.61
TAC Fees Breakdown						
Facility Flat Fee:					\$82.40	
CPWE Emission Fees:					\$4287.36	
Ammonia & Depleting Compounds (ODC) Fees:					\$513.25	
Per Device Fees (total devices with fees 15):					\$5415.60	
Total Facility TAC Fees:					\$10298.61	

3. TOTAL FEES DUE	\$24,064.88
4. INSTALLMENTS PAID FOR 2023 - (if any) -- All Criteria Pollutants	\$7,027.85
5. INSTALLMENTS PAID FOR 2023 - (if any) -- Toxic Air Contaminants/Ozone Depleters	\$4,590.17
6. BALANCE DUE (Line 3 - Line 4 - Line 5)	\$12,446.86
7. LATE PAYMENT SURCHARGE	\$0.00
8. AMOUNT DUE (Line 6 + Line 7)	\$12,446.86



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Annual Emission Report

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Facility Id: **17301**
 Facility Name **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Electronic Certification Sheet

Information

NAICS code:	221320	AB2588 Receptor Distance
AB2588 Filing Period:	Yes	Worker (ft): 682
RECLAIM:	No	Residential(ft): 1332
Facility Operating Status:	Operating	
Classified As Small Business:	No	Brief Description of Operation
Business Operating Hours		
Hours/Day;	24	
Days/Week:	7	
Weeks/Year:	52	

Equipment Location Address

Facility Name:
 ORANGE COUNTY SANITATION DISTRICT
 10844 ELLIS AVE
 FOUNTAIN VALLEY, CA 92708 7018

Mailing Information

Facility Name:
 ORANGE COUNTY SANITATION DISTRICT
 10844 ELLIS AVE
 FOUNTAIN VALLEY, CA 92708 7018

Contact Information

Name:	Randa AbuShaban	Phone:	714 593-7413
Title:	Senior Regulatory Specialist	Fax:	
E-mail:	rabushaban@ocsan.gov		

Preparer Information

Name:	Randa AbuShaban	Phone:	714 593-7413
Title:	Senior Regulatory Specialist	Fax:	
E-mail:	rabushaban@ocsan.gov		

Authorized Person Information

Name:	Randa AbuShaban	Phone:	714 593-7413
Title:	Senior Regulatory Specialist	Fax:	
E-mail:	rabushaban@ocsan.gov		

I declare under penalty of perjury that the data submitted truly represents throughput and emissions for this reporting period, and that the emission factors represent the best available data for my company in the calculation of annual emission figures.

- I acknowledge that I have read the South Coast AQMD Certification Statement.*
- I agree on the responsibility for this AER Report Submission in accordance with Certification Statement.*



South Coast

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Annual Emission Report

Reporting Year: **2023**

Facility Id: **17301**

Print Date: **03/19/2024**

Facility Name: **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

AER Submittal Confirmation

Thank you for submitting your Annual Emissions Report for Facility ID: 17301.

Please print the AER Payment Voucher and include the check for emission fees due if applicable and mail them to the SCAQMD.

AER Payment Voucher and check are first received and processed by Bank of America for check deposits, return receipts for certified mails will be stamped by Bank of America rather than AQMD. Please mail the required AER Payment Voucher and check to the following address:

South Coast Air Quality Management District
P.O. Box 54493
Los Angeles, CA 90074-4493

* To avoid late payment surcharges, all mails must be postmarked by the Post Office on or before March 19, 2024

NOTE: For any Express/Overnight/Courier delivery, example FedEx, please use the following address:

Bank of America Lockbox Services
South Coast Air Quality Management District - Lockbox 054493
2706 Media Center Drive
Los Angeles, CA 90065

If you wish to use a messenger (or hand deliver), the package should be delivered to the cashier's booth at AQMD Headquarters at the address listed below in Diamond Bar on or before 5:00 p.m. March 19, 2024
Please note that AQMD is closed on Mondays.

South Coast Air Quality Management District
ATTN: Cash Management
Annual Emission Reporting Program
21865 Copley Drive
Diamond Bar, CA 91765-4178



South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **03/19/2024**

Facility Id: **29110**
Facility Name **ORANGE COUNTY SANITATION DISTRICT**
Facility Type: **WasteWater Treatment - Municipal**

StatusUpdate

Facility ID	29110
Facility Shutdown Date	N/A
Change of Ownership Date	N/A
Change in Equipment Location Date	N/A
Emissions are zero for this year's report, or emissions reduced by 50%	N/A
Exemption Request	N/A
Use of alternative Calculation methodology	N/A
Other	N/A
Refund Request	N/A
Data is Confidential	NO



South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **03/19/2024**

Facility Id: **29110**
 Facility Name: **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

External Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES107		545004	P1	Boiler 10-100 MMBTU/HR	Digester Gas (Biogas)	2.790000	mmscf	EF	lbs/ mmscf	9.195000		12.873000	0.130000	0.026000	1.839000
								Emissions	lbs	25.65		35.92	0.36	0.07	5.13
ES107		545004	P2	Boiler 10-100 MMBTU/HR	Natural Gas	0.017000	mmscf	EF	lbs/ mmscf	5.500000		100.000000	0.600000	84.000000	7.600000
								Emissions	lbs	0.09		1.70	0.01	1.43	0.13
ES108		545005	P1	Boiler 10-100 MMBTU/HR	Digester Gas (Biogas)	2.090000	mmscf	EF	lbs/ mmscf	8.346000		14.124000	0.130000	0.040000	1.926000
								Emissions	lbs	17.44		29.52	0.27	0.08	4.03
ES108		545005	P2	Boiler 10-100 MMBTU/HR	Natural Gas	0.030000	mmscf	EF	lbs/ mmscf	5.500000		100.000000	0.600000	84.000000	7.600000
								Emissions	lbs	0.17		3.00	0.02	2.52	0.23
ES111		429663	P1	Flare	Digester Gas (Biogas)	1.220000	mmscf	EF	lbs/ mmscf	1.700000		25.800000	0.008000	50.100000	7.500000
								Emissions	lbs	2.07		31.48	0.01	61.12	9.15

Total Emissions	lbs	45.43		101.61	0.67	65.23	18.66
Total Emissions	tons	0.02	0.00	0.05	0.00	0.03	0.01



South Coast

AQMD

Annual Emission Report

Reporting Year:

2023

Print Date:

03/19/2024

Facility Id: **29110**

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

Internal Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units	Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES97	611439	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	118.500000	mmscf	EF lbs/ mmscf	1.570000			14.700000	0.010000	18.900000	1.300000
							Emissions lbs	186.05		1,741.95	1.19	2,239.65	154.05	
ES97	611439	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	27.240000	mmscf	EF lbs/ mmscf	31.700000			19.300000	0.600000	34.600000	1.490000
							Emissions lbs	863.51		525.73	16.34	942.50	40.59	
ES98	611440	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	186.250000	mmscf	EF lbs/ mmscf	3.000000			21.800000	0.014000	22.900000	1.570000
							Emissions lbs	558.75		4,060.25	2.61	4,265.13	292.41	
ES98	611440	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	24.470000	mmscf	EF lbs/ mmscf	31.700000			19.300000	0.600000	34.600000	1.490000
							Emissions lbs	775.70		472.27	14.68	846.66	36.46	
ES99	611441	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	163.480000	mmscf	EF lbs/ mmscf	2.420000			21.800000	0.013000	17.900000	1.340000
							Emissions lbs	395.62		3,563.86	2.13	2,926.29	219.06	
ES99	611441	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	50.570000	mmscf	EF lbs/ mmscf	31.700000			19.300000	0.600000	34.600000	1.490000
							Emissions lbs	1,603.07		976.00	30.34	1,749.72	75.35	
ES100	611442	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	204.770000	mmscf	EF lbs/ mmscf	1.710000			18.300000	0.012000	15.800000	1.270000
							Emissions lbs	350.16		3,747.29	2.46	3,235.37	260.06	

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES100	611442	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	22.940000	mmscf	EF	lbs/ mmscf	31.700000			19.300000	0.600000	34.600000	1.490000
							Emissions	lbs	727.20			442.74	13.76	793.72	34.18
ES101	611443	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	162.180000	mmscf	EF	lbs/ mmscf	1.520000			15.300000	0.010000	20.900000	1.070000
							Emissions	lbs	246.51			2,481.35	1.62	3,389.56	173.53
ES101	611443	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	16.180000	mmscf	EF	lbs/ mmscf	31.700000			19.300000	0.600000	34.600000	1.490000
							Emissions	lbs	512.91			312.27	9.71	559.83	24.11
ES112	474770	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	3.169200	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	118.85			1,486.35	0.67	323.26	106.17
ES113	474769	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	3.141400	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	117.80			1,473.32	0.66	320.42	105.24
ES114	474768	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.610000	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	22.88			286.09	0.13	62.22	20.44
ES115	474767	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.675000	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	25.31			316.58	0.14	68.85	22.61
ES116	474766	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.645000	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	24.19			302.51	0.14	65.79	21.61
ES117	455673	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.625500	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	23.46			293.36	0.13	63.80	20.95
ES119	455670	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	1.751400	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	65.68			821.41	0.37	178.64	58.67
ES120	424369	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	2.946800	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	110.51			1,382.05	0.62	300.57	98.72
ES125	455671	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	1.709700	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	64.11			801.85	0.36	174.39	57.27
ES129		P1	Portable I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.221000	M gal	EF	lbs/ M gal	37.500000			469.000000	0.210000	102.000000	33.500000
							Emissions	lbs	8.29			103.65	0.05	22.54	7.40

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units	Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM	
ES130			P1	Portable I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.000000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	0.00		0.00	0.00	0.00	0.00

Total Emissions	lbs	6,800.53		25,590.88	98.09	22,528.93	1,828.88
Total Emissions	tons	3.40	0.00	12.80	0.05	11.26	0.91



South Coast

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Annual Emission Report

Reporting Year: **2023**

Print Date: **03/19/2024**

Facility Id: **29110**
 Facility Name **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Other Use of Organics Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES126			P1	Coating (Flow / Dip / Roll / Hand Application)	Others : Adhesive and Sealant Applications : Hand Application : Multipurpose Construction Adhesives	Adhesives	8.700000	gal	EF	lbs/ gal	0.300000					
									Emissions	lbs	2.61					
ES127			P2	Coating (Flow / Dip / Roll / Hand Application)	Coating : Coating of Metal Parts and Products : Flow, Roll or Dip Coater : Air Dried - Repair / Touch Up	Structure components	66.870000	gal	EF	lbs/ gal	0.910000					
									Emissions	lbs	60.85					

Total Emissions	lbs	63.46					
Total Emissions	tons	0.03	0.00	0.00	0.00	0.00	0.00



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Other Process Emissions Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Activity	Throughput	Units	Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM	Permit Equipment Description
ES96		618472	P1	Miscellaneous Operations and Services : POTW : Government : Entire Plant	65.670000	MMgal/day	EF	219.000000						
							Emissions	14,381.73						

Total Emissions	lbs	14,381.73						
Total Emissions	tons	7.19	0.00	0.00	0.00	0.00	0.00	



South Coast

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Annual Emission Report

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 Facility Name **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Criteria Pollutants Permitted Emissions Summary (Excluding PERP)

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.02	0.00	0.05	0.00	0.00	0.00	0.03	0.01
Internal Combustion	3.40	0.00	12.74	0.00	0.05	0.00	11.25	0.91
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	7.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Permitted Emissions	10.61	0.00	12.79	0.00	0.05	0.00	11.28	0.92



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Annual Emission Report

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Facility Name **ORANGE COUNTY SANITATION DISTRICT**
Facility Type: **WasteWater Treatment - Municipal**

Criteria Pollutants Non-Permitted Emissions Summary (Excluding PERP)

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Internal Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Non-Permitted Emissions	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00



South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

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Facility Id: **29110**
Facility Name **ORANGE COUNTY SANITATION DISTRICT**
Facility Type: **WasteWater Treatment - Municipal**

Toxic Air Contaminants (TAC) / Ozone Depleting Compounds (ODC) Emissions and Fees Summary

For detailed TAC Records please see
related "AER TAC Report" Excel file



South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **03/19/2024**

Facility Id: **29110**

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

Other Toxic Air Contaminants (TAC) Emissions Summary Applicable to AB2588 Facility

For detailed TAC Records please see related "AER TAC Report" Excel file



South Coast

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Annual Emission Report

Reporting Year: **2023**

Facility Id: **29110**
 Facility Name: **ORANGE COUNTY SANITATION DISTRICT**
 Facility Type: **WasteWater Treatment - Municipal**

Print Date: **03/19/2024**

Total Emissions and Fees

Submittal Date: No later than March 19 2024	Total Permitted Emissions (tons)	Total Non- Permitted Emissions (tons)	Total RECLAIM Emissions (tons)	Total Emission (tons)	Total Emissions/ Subject To Fee (tons)	Emissions Fees Due
Organic Gasses	10.61	0.03		10.64	11.00	\$6,086.16
Specific Organics	0.00	0.00		0.00	0.00	\$0.00
Nitrogen Oxides	12.79	0.00	0.00	12.84	13.00	\$4,450.70
Sulfur Oxides	0.05	0.00	0.00	0.05	0.00	\$0.00
Carbon Monoxide	11.28	0.00		11.29	0.00	\$0.00
Particulate Matter	0.92	0.00		0.92	0.00	\$0.00
1. TOTAL EMISSION FEES FOR ALL CRITERIA POLLUTANTS						\$10,536.86
2. TOXIC AIR CONTAMINANTS/ OZONE DEPLETER FEES (Total amount from Form TACS or DC)						\$14,014.72
TAC Fees Breakdown						
Facility Flat Fee:					\$82.40	
CPWE Emission Fees:					\$8110.08	
Ammonia & Depleting Compounds (ODC) Fees:					\$406.64	
Per Device Fees (total devices with fees 15):					\$5415.60	
Total Facility TAC Fees:					\$14014.72	

3. TOTAL FEES DUE	\$24,551.58
4. INSTALLMENTS PAID FOR 2023 - (if any) -- All Criteria Pollutants	\$4,927.82
5. INSTALLMENTS PAID FOR 2023 - (if any) -- Toxic Air Contaminants/Ozone Depleters	\$6,316.71
6. BALANCE DUE (Line 3 - Line 4 - Line 5)	\$13,307.05
7. LATE PAYMENT SURCHARGE	\$0.00
8. AMOUNT DUE (Line 6 + Line 7)	\$13,307.05



South Coast

AQMD

Annual Emission Report

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Facility Id: **29110**
Facility Name **ORANGE COUNTY SANITATION DISTRICT**
Facility Type: **WasteWater Treatment - Municipal**

Electronic Certification Sheet

Information

NAICS code: 221320 AB2588 Receptor Distance
AB2588 Filing Period: Yes Worker (ft): 1100
RECLAIM: No Residential(ft): 810
Facility Operating Status: Operating
Classified As Small Business: No Brief Description of Operation
Business Operating Hours
Hours/Day; 24
Days/Week: 7
Weeks/Year: 52

Equipment Location Address

Facility Name:
ORANGE COUNTY SANITATION DISTRICT
22212 BROOKHURST ST
HUNTINGTON BEACH, CA 92646 8457

Mailing Information

Facility Name:
ORANGE COUNTY SANITATION DISTRICT
10844 Ellis Avenue
Fountain Valley, CA 92708

Contact Information

Name: Randa Abushaban Phone: 714 593-7413 Ext. 7413
Title: Senior Regulatory Specialist Fax:
E-mail: rabushaban@ocsan.gov

Preparer Information

Name: Randa Abushaban Phone: 714 593-7413 Ext. 7413
Title: Senior Regulatory Specialist Fax:
E-mail: rabushaban@ocsan.gov

Authorized Person Information

Name: Randa Abushaban Phone: 714 593-7413 Ext. 7413
Title: Senior Regulatory Specialist Fax:
E-mail: rabushaban@ocsan.gov

I declare under penalty of perjury that the data submitted truly represents throughput and emissions for this reporting period, and that the emission factors represent the best available data for my company in the calculation of annual emission figures.

I acknowledge that I have read the South Coast AQMD Certification Statement.*

I agree on the responsibility for this AER Report Submission in accordance with Certification Statement.*



South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Facility Id: **29110**

Print Date: **03/19/2024**

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

AER Submittal Confirmation

Thank you for submitting your Annual Emissions Report for Facility ID: 29110.

Please print the AER Payment Voucher and include the check for emission fees due if applicable and mail them to the SCAQMD.

AER Payment Voucher and check are first received and processed by Bank of America for check deposits, return receipts for certified mails will be stamped by Bank of America rather than AQMD. Please mail the required AER Payment Voucher and check to the following address:

South Coast Air Quality Management District
P.O. Box 54493
Los Angeles, CA 90074-4493

* To avoid late payment surcharges, all mails must be postmarked by the Post Office on or before March 19, 2024

NOTE: For any Express/Overnight/Courier delivery, example FedEx, please use the following address:

Bank of America Lockbox Services
South Coast Air Quality Management District - Lockbox 054493
2706 Media Center Drive
Los Angeles, CA 90065

If you wish to use a messenger (or hand deliver), the package should be delivered to the cashier's booth at AQMD Headquarters at the address listed below in Diamond Bar on or before 5:00 p.m. March 19, 2024
Please note that AQMD is closed on Mondays.

South Coast Air Quality Management District
ATTN: Cash Management
Annual Emission Reporting Program
21865 Copley Drive
Diamond Bar, CA 91765-4178



Orange County
Sanitation District
70th Anniversary

Environmental Compliance Division
18480 Bandilier Circle
Fountain Valley, California 92708-7018
714.962.2411

www.ocsan.gov