



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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
ES65		429662	P1	Flare	Digester Gas (Biogas)	0.330000	mmscf	EF lbs/ mmscf	1.000000		35.950000	3.070000	2.500000	4.440000
								Emissions lbs	0.33		11.86	1.01	0.83	1.47
ES67		494460	P1	Boiler 10-100 MMBTU/HR	Digester Gas (Biogas)	9.380000	mmscf	EF lbs/ mmscf	5.900000		7.940000	3.200000	3.870000	2.810000
								Emissions lbs	55.34		74.48	30.02	36.30	26.36
ES86		494460	P1	Boiler 10-100 MMBTU/HR	Natural Gas	0.003452	mmscf	EF lbs/ mmscf	5.500000		8.940000	0.600000	4.950000	7.600000
								Emissions lbs	0.02		0.03	0.00	0.02	0.03

Total Emissions	lbs	55.69		86.37	31.03	37.14	27.85
Total Emissions	tons	0.03	0.00	0.04	0.02	0.02	0.01



South Coast

**AQMD**

# Annual Emission Report

Reporting Year:

**2018**

Print Date:

**03/13/2019**

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	
ES68		06049A	P1	Turbines	Distillate Fuel Oil No. 2	1.895000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	71.06		888.76	0.40	193.29	63.48
ES69		06050A	P1	Turbines	Distillate Fuel Oil No. 2	0.025000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	0.94		11.73	0.01	2.55	0.84
ES70		133994	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.710000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	26.63		332.99	0.15	72.42	23.79
ES71		133995	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.010000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	0.38		4.69	0.00	1.02	0.34
ES72		134619	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.690000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	25.88		323.61	0.14	70.38	23.12
ES73		135464	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.955000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	35.81		447.90	0.20	97.41	31.99
ES74		408166	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.600000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	22.50		281.40	0.13	61.20	20.10
ES75		428945	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.650000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	24.38		304.85	0.14	66.30	21.78

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES76	546360	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	230.460000	mmscf	EF	lbs/ mmscf	6.420000			19.600000	0.540000	13.200000	1.320000
							Emissions	lbs	1,479.55			4,517.02	124.45	3,042.07	304.21
ES76	546360	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	13.960000	mmscf	EF	lbs/ mmscf	17.900000			29.200000	0.600000	21.800000	1.790000
							Emissions	lbs	249.88			407.63	8.38	304.33	24.99
ES77	546361	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	232.320000	mmscf	EF	lbs/ mmscf	5.360000			16.400000	0.540000	22.000000	1.440000
							Emissions	lbs	1,245.24			3,810.05	125.45	5,111.04	334.54
ES77	546361	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	16.130000	mmscf	EF	lbs/ mmscf	17.900000			29.200000	0.600000	21.800000	1.790000
							Emissions	lbs	288.73			471.00	9.68	351.63	28.87
ES78	546362	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	233.600000	mmscf	EF	lbs/ mmscf	6.590000			11.300000	0.540000	12.610000	1.270000
							Emissions	lbs	1,539.42			2,639.68	126.14	2,945.70	296.67
ES78	546362	P2	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	22.540000	mmscf	EF	lbs/ mmscf	17.900000			29.200000	0.600000	21.800000	1.790000
							Emissions	lbs	403.47			658.17	13.52	491.37	40.35

Total Emissions	lbs	5,413.85		15,099.46	408.79	12,810.71	1,215.05
Total Emissions	tons	2.71	0.00	7.55	0.20	6.41	0.61



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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
ES85		13973X	P1	Spray Booth	Coating : Coating of Metal Parts and Products : HVLP Application : Air Dried - Repair / Touch Up	Misc.	16.75000	gal	EF	lbs/ gal	1.200000				1.050000
									Emissions	lbs	20.10				1.76

Total Emissions	lbs	20.10					1.76
Total Emissions	tons	0.01	0.00	0.00	0.00	0.00	0.00



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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
ES79			P1	Coating (Flow / Dip / Roll / Hand Application)	Coating : Metal Container, Closure, and Coil Coating Operations : Flow, Roll or Dip Coater : Two-Piece Can Exterior Basecoat and Overvarnish	Enamel/ Epoxy	20.10000	gal	EF	lbs/ gal	2.800000				
									Emissions	lbs	56.28				
ES80			P1	Other evaporative sources	Others : Adhesive and Sealant Applications : HVLP Application : Special Purpose Contact Adhesive	Blue Glue	3.000000	gal	EF	lbs/ gal	5.200000				
									Emissions	lbs	15.60				
ES81			P1	Coating (Flow / Dip / Roll / Hand Application)	Coating : Coating of Metal Parts and Products : Hand Application : Air Dried - One Component	Gripper	3.000000	gal	EF	lbs/ gal	2.300000				
									Emissions	lbs	6.90				

Total Emissions	lbs	78.78					
Total Emissions	tons	0.04	0.00	0.00	0.00	0.00	0.00



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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
ES82			P1	Storage tank and Dispensing	Distillate fuel oil no. 2	1.500000	M gal	EF	lbs/ M gal	0.028000				
								Emissions	lbs	0.04				

Total Emissions	lbs	0.04					
Total Emissions	tons	0.00	0.00	0.00	0.00	0.00	0.00



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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
ES83		520794	P1	Miscellaneous Operations and Services : Sewage and Waste Treatment : Industrial : Entire Plant	120.300000	MMgal/day	EF	lbs/ MMgal/day	240.000000					
							Emissions	lbs	28,872.00					
ES84		568969	P1	Abrasive Blasting/Finishing : Metal Part : Abrasive Blasting : Sand	62.400000	hour	EF	lbs/ hour					0.042000	
							Emissions	lbs						2.62

Total Emissions	lbs	28,872.00						2.62	
Total Emissions	tons	14.44	0.00	0.00	0.00	0.00	0.00	0.00	







South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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

## Criteria Pollutants Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.03	0.00	0.04	0.00	0.02	0.00	0.02	0.01
Internal Combustion	2.71	0.00	7.55	0.00	0.20	0.00	6.41	0.61
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	14.44	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
<b>Total Permitted Emissions</b>	<b>17.19</b>	<b>0.00</b>	<b>7.59</b>	<b>0.00</b>	<b>0.22</b>	<b>0.00</b>	<b>6.43</b>	<b>0.62</b>



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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

## Criteria Pollutants Non-Permitted Emissions Summary

	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	0.04	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
<b>Total Non-Permitted Emissions</b>	<b>0.04</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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

TAC Group	TAC / ODC	Annual Emissions (lbs)	Emissions Subject to Fee (lbs)	Fee Rates (\$/lbs)	Fee Due
32	Ammonia	1.08047e+4	10,805	0.03	324.15
1	Asbestos	0.00000e+0	0	0.00	0.00
2	Benzene	3.37291e+1	34	2.20	74.80
3	Beryllium	0.00000e+0	0	0.00	0.00
4	Butadiene [1,3]	1.55366e+1	16	6.52	104.32
5	Cadmium	8.30250e-3	0	6.62	0.00
6	Carbon tetrachloride	4.19857e+0	4	2.20	8.80
7	Chlorinated dioxins and dibenzofurans	0.00000e+0	0	0.00	0.00
8	1,4-Dioxane	0.00000e+0	0	0.00	0.00
9	Ethylene dibromide {1,2-Dibromoethane}	2.37814e+0	2	2.20	4.40
10	Ethylene dichloride {1,2-Dichloroethane}	2.72931e+0	3	2.20	6.60
11	Ethylene oxide	0.00000e+0	0	0.00	0.00
12	Formaldehyde	3.41560e+3	3,416	0.49	1,673.84
13	Chromium, hexavalent (and compounds)	5.53500e-4	0	8.71	0.00
14	Arsenic and Compounds (inorganic)	8.85600e-3	0	6.52	0.00
15	Lead compounds (inorganic)	4.59405e-2	0	2.20	0.00
16	Methylene chloride {Dichloromethane}	4.74409e+1	0	0.08	0.00
17	Nickel	2.15865e-2	0	4.34	0.00
18	Perchloroethylene (Tetrachloroethene)	1.66210e+2	166	0.49	81.34
19	PAHs [PAH, POM]	7.54389e+0	8	6.52	52.16
20	Trichloroethylene	2.99443e+0	0	0.17	0.00
21	Vinyl chloride	1.09947e+0	1	2.20	2.20
22	Fluorocarbons (chlorinated)	0.00000e+0	0	0.00	0.00
23	Methyl chloroform {1,1,1-Trichloroethane}	6.01500e+0	6	0.05	0.30
<b>Fees due total (\$)</b>					<b>2,332.91</b>



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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

## Total Emissions and Fees

Submittal Date: No later than March 19 2019	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	17.19	0.04		17.23	17.00	\$8,752.38
Specific Organics	0.00	0.00		0.00	0.00	\$0.00
Nitrogen Oxides	7.59	0.00	0.00	7.59	8.00	\$1,828.75
Sulfur Oxides	0.22	0.00	0.00	0.22	0.00	\$0.00
Carbon Monoxide	6.43	0.00		6.43	0.00	\$0.00
Particulate Matter	0.62	0.00		0.62	0.00	\$0.00
1. TOTAL EMISSION FEES FOR ALL CRITERIA POLLUTANTS						\$10,581.13
2. TOXIC AIR CONTAMINANTS/ OZONE DEPLETER FEES (Total amount from Form TACS or DC)						\$2,332.91
3. TOTAL FEES DUE						\$12,914.04
4. INSTALLMENTS PAID FOR 2018 - (if any) -- All Criteria Pollutants						\$3,627.66
5. INSTALLMENTS PAID FOR 2018 - (if any) -- Toxic Air Contaminants/Ozone Depleters						\$941.71
6. BALANCE DUE (Line 3 - Line 4 - Line 5)						\$8,344.67
7. LATE PAYMENT SURCHARGE						\$0.00
<b>8. AMOUNT DUE</b>						<b>\$8,344.67</b>



South Coast  
**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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

## Signature Sheet

### Information

---

NAICS code:	221320	
AB2588 Filing Period:	No	Brief Description of Operation
RECLAIM:	No	
Facility Operating Status:	Operating	
Classified As Small Business:	No	
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 Ext. 7413
Title:	Regulatory Specialist	Fax:	
E-mail:	rabushaban@ocsd.com		

### Preparer Information

---

Name:	Randa AbuShaban	Phone:	714 593-7413 Ext. 7413
Title:	Regulatory Specialist	Fax:	
E-mail:	rabushaban@ocsd.com		

### Authorized Person Information

---

Name:	Randa AbuShaban	Phone:	714 593-7413 Ext. 7413
Title:	Regulatory Specialist	Fax:	
E-mail:	rabushaban@ocsd.com		

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.

Authorized Signature	_____	Date	_____
Preparer Signature	_____	Date	_____



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Facility Id: **17301**

Print Date: **03/13/2019**

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 on 03/13/2019.

**Please print the submittal forms, sign the Signature Sheet (plus a check for emission fees due if applicable) and mail them to the SCAQMD.**

The reports 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 forms and fees to the following address:

South Coast Air Quality Management District  
Annual Emission Reporting Program  
File No. 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, 2019

NOTE: For any overnight delivery, example FedEx, please use the following address:

Bank of America Lockbox Services  
Lockbox LAC-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, 2019  
Please note that AQMD is closed on Mondays.

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



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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





South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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
ES64		429663	P1	Flare	Digester Gas (Biogas)	0.520000	mmscf	EF lbs/ mmscf	1.200000		30.490000	2.210000	25.980000	5.070000
								Emissions lbs	0.62		15.85	1.15	13.51	2.64
ES65		545004	P1	Boiler 10-100 MMBTU/HR	Digester Gas (Biogas)	5.280000	mmscf	EF lbs/ mmscf	1.280000		12.590000	2.700000	14.690000	4.320000
								Emissions lbs	6.76		66.48	14.26	77.56	22.81
ES66		545005	P1	Boiler 10-100 MMBTU/HR	Digester Gas (Biogas)	4.600000	mmscf	EF lbs/ mmscf	1.150000		7.080000	2.700000	19.600000	4.320000
								Emissions lbs	5.29		32.57	12.42	90.16	19.87
ES89		545004	P1	Boiler 10-100 MMBTU/HR	Natural Gas	1.480000	mmscf	EF lbs/ mmscf	5.500000		2.107000	0.600000	5.150000	7.600000
								Emissions lbs	8.14		3.12	0.89	7.62	11.25
ES90		545005	P1	Boiler 10-100 MMBTU/HR	Natural Gas	0.190000	mmscf	EF lbs/ mmscf	5.500000		9.720000	0.600000	4.630000	7.600000
								Emissions lbs	1.05		1.85	0.11	0.88	1.44

Total Emissions	lbs	21.86		119.86	28.83	189.73	58.01
Total Emissions	tons	0.01	0.00	0.06	0.01	0.09	0.03



South Coast

**AQMD**

# Annual Emission Report

Reporting Year:

**2018**

Print Date:

**03/13/2019**

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	
ES67		06045A	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	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
ES68		06046A	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	1.005000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	37.69		471.35	0.21	102.51	33.67
ES69		06047A	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.715000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	26.81		335.34	0.15	72.93	23.95
ES70		06048A	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	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
ES71		424369	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.770000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	28.88		361.13	0.16	78.54	25.80
ES72		455670	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.770000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	28.88		361.13	0.16	78.54	25.80
ES73		455671	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.660000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	24.75		309.54	0.14	67.32	22.11
ES74		455673	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.740000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	27.75		347.06	0.16	75.48	24.79

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES75		474766	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	3.220000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	120.75		1,510.18	0.68	328.44	107.87
ES76		474767	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	2.475000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	92.81		1,160.78	0.52	252.45	82.91
ES77		474768	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	0.750000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	28.13		351.75	0.16	76.50	25.13
ES78		474769	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	1.030000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	38.63		483.07	0.22	105.06	34.51
ES79		474770	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2	1.060000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	39.75		497.14	0.22	108.12	35.51
ES80		546364	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	128.770000	mmscf	EF	lbs/ mmscf	7.410000		19.500000	0.540000	11.000000	1.130000
								Emissions	lbs	954.19		2,511.01	69.54	1,416.47	145.51
ES81		546365	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	122.230000	mmscf	EF	lbs/ mmscf	3.200000		12.000000	0.540000	16.800000	0.920000
								Emissions	lbs	391.14		1,466.76	66.00	2,053.46	112.45
ES82		546366	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	135.850000	mmscf	EF	lbs/ mmscf	7.800000		8.090000	0.540000	13.500000	1.110000
								Emissions	lbs	1,059.63		1,099.03	73.36	1,833.98	150.79
ES83		546368	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	246.610000	mmscf	EF	lbs/ mmscf	3.680000		8.260000	0.540000	8.320000	1.700000
								Emissions	lbs	907.53		2,037.00	133.17	2,051.80	419.24
ES84		546367	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Digester Gas (Biogas)	224.360000	mmscf	EF	lbs/ mmscf	3.200000		8.730000	0.540000	10.600000	0.350000
								Emissions	lbs	717.95		1,958.66	121.15	2,378.22	78.53
ES91		546364	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	6.680000	mmscf	EF	lbs/ mmscf	20.100000		25.700000	0.600000	15.400000	1.880000
								Emissions	lbs	134.27		171.68	4.01	102.87	12.56
ES92		546365	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	9.160000	mmscf	EF	lbs/ mmscf	20.100000		25.700000	0.600000	15.400000	1.880000
								Emissions	lbs	184.12		235.41	5.50	141.06	17.22

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES93	546366	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	6.630000	mmscf	EF	lbs/ mmscf	20.100000			25.700000	0.600000	15.400000	1.880000
							Emissions	lbs	133.26		170.39	3.98	102.10	12.46	
ES94	546367	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	13.600000	mmscf	EF	lbs/ mmscf	20.100000			25.700000	0.600000	15.400000	1.880000
							Emissions	lbs	273.36		349.52	8.16	209.44	25.57	
ES95	546368	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Natural Gas	11.910000	mmscf	EF	lbs/ mmscf	20.100000			25.700000	0.600000	15.400000	1.880000
							Emissions	lbs	239.39		306.09	7.15	183.41	22.39	

Total Emissions	lbs	5,514.95		16,810.58	494.92	11,887.56	1,461.37
Total Emissions	tons	2.76	0.00	8.41	0.25	5.94	0.73



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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
ES85			P1	Coating (Flow / Dip / Roll / Hand Application)	Coating : Metal Container, Closure, and Coil Coating Operations : Other Approved Methods : Two-Piece Can Exterior Basecoat and Overvarnish	PRIMER	22.00000	gal	EF	lbs/ gal	2.300000				
									Emissions	lbs	50.60				
ES86			P1	Coating (Flow / Dip / Roll / Hand Application)	Coating : Coating of Metal Parts and Products : Hand Application : Air Dried - Repair / Touch Up	ENAMEL/ EPOXY	17.00000	gal	EF	lbs/ gal	2.800000				
									Emissions	lbs	47.60				
ES87			P1	Coating (Flow / Dip / Roll / Hand Application)	Coating : Wood Flat Stock Coating Operations : Hand Application : Coating	ADHESIVES	3.500000	gal	EF	lbs/ gal	5.200000				
									Emissions	lbs	18.20				

Total Emissions	lbs	116.40					
Total Emissions	tons	0.06	0.00	0.00	0.00	0.00	0.00



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

Facility Id: **29110**  
 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
ES88		453240	P1	Miscellaneous Operations and Services : POTW : Government : Entire Plant	63.670000	MMgal/day	EF	219.000000						
							Emissions	13,943.70						

Total Emissions	lbs	13,943.70						
Total Emissions	tons	6.97	0.00	0.00	0.00	0.00	0.00	





South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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

## Criteria Pollutants Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.01	0.00	0.06	0.00	0.01	0.00	0.09	0.03
Internal Combustion	2.76	0.00	8.41	0.00	0.25	0.00	5.94	0.73
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.06	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	6.97	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
<b>Total Permitted Emissions</b>	<b>9.80</b>	<b>0.00</b>	<b>8.47</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>	<b>6.03</b>	<b>0.76</b>





South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

Facility Id: **29110**

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: **WasteWater Treatment - Municipal**

## Criteria Pollutants Non-Permitted Emissions Summary

	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	0.00	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	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
<b>Total Non-Permitted Emissions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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

TAC Group	TAC / ODC	Annual Emissions (lbs)	Emissions Subject to Fee (lbs)	Fee Rates (\$/lbs)	Fee Due
32	Ammonia	8.89073e+3	8,891	0.03	266.73
1	Asbestos	0.00000e+0	0	0.00	0.00
2	Benzene	3.29324e+1	33	2.20	72.60
3	Beryllium	0.00000e+0	0	0.00	0.00
4	Butadiene [1,3]	1.60822e+1	16	6.52	104.32
5	Cadmium	2.08050e-2	0	6.62	0.00
6	Carbon tetrachloride	4.41243e+0	4	2.20	8.80
7	Chlorinated dioxins and dibenzofurans	0.00000e+0	0	0.00	0.00
8	1,4-Dioxane	0.00000e+0	0	0.00	0.00
9	Ethylene dibromide {1,2-Dibromoethane}	2.16802e+0	2	2.20	4.40
10	Ethylene dichloride {1,2-Dichloroethane}	3.51398e+0	4	2.20	8.80
11	Ethylene oxide	0.00000e+0	0	0.00	0.00
12	Formaldehyde	3.44984e+3	3,450	0.49	1,690.50
13	Chromium, hexavalent (and compounds)	1.38700e-3	0	8.71	0.00
14	Arsenic and Compounds (inorganic)	2.21920e-2	0	6.52	0.00
15	Lead compounds (inorganic)	1.15121e-1	0	2.20	0.00
16	Methylene chloride {Dichloromethane}	2.97790e+1	0	0.08	0.00
17	Nickel	5.40930e-2	0	4.34	0.00
18	Perchloroethylene (Tetrachloroethene)	1.10433e+2	110	0.49	53.90
19	PAHs [PAH, POM]	7.37490e+0	7	6.52	45.64
20	Trichloroethylene	2.71255e+0	0	0.17	0.00
21	Vinyl chloride	1.80148e+0	2	2.20	4.40
22	Fluorocarbons (chlorinated)	0.00000e+0	0	0.00	0.00
23	Methyl chloroform {1,1,1-Trichloroethane}	0.00000e+0	0	0.00	0.00
<b>Fees due total (\$)</b>					<b>2,260.09</b>



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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

## Total Emissions and Fees

Submittal Date: No later than March 19 2019	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	9.80	0.00		9.80	10.00	\$4,376.19
Specific Organics	0.00	0.00		0.00	0.00	\$0.00
Nitrogen Oxides	8.47	0.00	0.00	8.47	8.00	\$1,828.75
Sulfur Oxides	0.26	0.00	0.00	0.26	0.00	\$0.00
Carbon Monoxide	6.03	0.00		6.03	0.00	\$0.00
Particulate Matter	0.76	0.00		0.76	0.00	\$0.00
1. TOTAL EMISSION FEES FOR ALL CRITERIA POLLUTANTS						\$6,204.94
2. TOXIC AIR CONTAMINANTS/ OZONE DEPLETER FEES (Total amount from Form TACS or DC)						\$2,260.09
3. TOTAL FEES DUE						\$8,465.03
4. INSTALLMENTS PAID FOR 2018 - (if any) -- All Criteria Pollutants						\$3,656.46
5. INSTALLMENTS PAID FOR 2018 - (if any) -- Toxic Air Contaminants/Ozone Depleters						\$1,658.78
6. BALANCE DUE (Line 3 - Line 4 - Line 5)						\$3,149.79
7. LATE PAYMENT SURCHARGE						\$0.00
<b>8. AMOUNT DUE</b>						<b>\$3,149.79</b>



South Coast

AQMD

# Annual Emission Report

Reporting Year: **2018**

Print Date: **03/13/2019**

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

## Signature Sheet

### Information

---

NAICS code: 221320  
AB2588 Filing Period: No Brief Description of Operation  
RECLAIM: No  
Facility Operating Status: Operating  
Classified As Small Business: No  
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  
22212 BROOKHURST ST  
HUNTINGTON BEACH, CA 92646 8457

### Contact Information

---

Name: RANDA ABUSHABAN Phone: 714 593-7413 Ext. 7413  
Title: REGULATORY SPECIALIST Fax:  
E-mail: rabushaban@ocsd.com

### Preparer Information

---

Name: RANDA ABUSHABAN Phone: 714 593-7413 Ext. 7413  
Title: REGULATORY SPECIALIST Fax:  
E-mail: rabushaban@ocsd.com

### Authorized Person Information

---

Name: RANDA ABUSHABAN Phone: 714 593-7413 Ext. 7413  
Title: REGULATORY SPECIALIST Fax:  
E-mail: rabushaban@ocsd.com

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.

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

Preparer Signature \_\_\_\_\_ Date \_\_\_\_\_



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2018**

Facility Id: **29110**

Print Date: **03/13/2019**

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 on 03/13/2019.

**Please print the submittal forms, sign the Signature Sheet (plus a check for emission fees due if applicable) and mail them to the SCAQMD.**

The reports 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 forms and fees to the following address:

South Coast Air Quality Management District  
Annual Emission Reporting Program  
File No. 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, 2019

NOTE: For any overnight delivery, example FedEx, please use the following address:

Bank of America Lockbox Services  
Lockbox LAC-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, 2019  
Please note that AQMD is closed on Mondays.

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