



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach, CA

Monitoring Period: May 1- 31, 2017

This notice and necessary information demonstrates compliance with requirements of the Code of Federal Regulations Title 40 Part 503 and the Arizona Administrative Code Title 18, Chapter 9, Article 10 for land application pollutant concentrations, Class B pathogen reduction via anaerobic digestion (40CFR 503.32(b)(3)(A)(3), AAC R18-9-1006(E)(5)), and vector attraction reduction via volatile solids reduction (40CFR 503.33(b)(1), AAC R18-9-1010(A)(1)).

Sampling date(s): 05/03/17,05/10/17

	Mercury (mg/kg dry)	Arsenic (mg/kg dry)	Cadmium (mg/kg dry)	Chromium (mg/kg dry)	Copper (mg/kg dry)	Lead (mg/kg dry)	Molybdenum (mg/kg dry)	Nickel (mg/kg dry)	Selenium (mg/kg dry)	Zinc (mg/kg dry)	Ammonia Nitrogen (mg/kg dry)	Organic Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
Plant 1 Avg	1.2	8.3	4.2	30	410	9.0 DNQ	15	25	11	590	6,300	50,000		18	
Plant 1 Max/Min¹	1.2	9.1	4.5	31	440	11	15	25	12	630	6,300	52,000	7.7	17	56
Plant 2 Max/Min¹	0.68	9.3	5.8	39	520	13	15	27	8.2	840	5,400	48,000	7.7	20	58
Plant 2 Avg	0.65	9.0	5.3	36	470	11 DNQ	14	26	7.4	760	5,400	46,000		20	
Table 1 (Max/Min)¹	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1³	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days) ²	18	17	17	17	17	62 ⁴	Out of Service	18	Out of Service	17	18
Minimum Temperature (Min 95 °F)	99	99	100	100	100	99	Out of Service	100	Out of Service	100	100

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
Minimum Mean Cell Residence Time (Min 15 days) ²	18	20	19	Out of Service	18	18	Out of Service	18	19	20	Out of Service	18	19	18	18	18	18	18
Minimum Temperature (Min 95 °F)	95	95	99	Out of Service	98	100	Out of Service	100	101	99	Out of Service	100	98	99	99	99	100	99

DNQ (Detected, Not Quantified) represents estimated values above the method detection limit (MDL), but below the reporting limit (RL).

¹ Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids.

Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

² MCRT based on a 15-Day Rolling Average.



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³ March 5, 2017 – June 7, 2017: OCSD discovered that the Plant No. 1 primary sludge flowmeter feeding the Plant No. 1 digesters and the sludge diversion flowmeter in the line that diverts primary sludge from Plant No. 1 to Plant No. 2 were inaccurate by up to 50% each. The process engineers corrected the affected diversion flowmeter data by adding 50% flow to be conservative (additional solids into the Plant No. 2 headworks, which are considered recycle flows and subtracted from the influent total suspended solids). The primary sludge flowmeter data was not corrected because it would have resulted in higher digestion times (less conservative) and the engineers could not determine the exact daily value by which the meter was inaccurate and the impact to each digester.

⁴ Digester 11 was placed in service on May 23, 2017.

Certifications:

NPDES permit: *I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

503 Class B: *I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.*

Arizona Class B: *I certify, under penalty of law, that the pollutant analyses and the description of pathogen treatment and vector attraction reduction activities have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and evaluate the information used to determine whether the applicable biosolids requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.*

12/12/2017

X 

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Signed by: Spears, Jim

12/12/2017

X 

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