



## Biosolids Notice and Necessary Information

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

**Monitoring Period:** June 1- 30, 2016

**Pollutant and Nitrogen concentrations** (reported results may be averages on 100% dry weight basis).

**Sampling date(s):** 06/01/2016,06/08/2016

|                       | As<br>(mg/kg) | Cd<br>(mg/kg) | Cu<br>(mg/kg) | Pb<br>(mg/kg) | Hg<br>(mg/kg) | Mo<br>(mg/kg) | Ni<br>(mg/kg) | Se<br>(mg/kg) | Zn<br>(mg/kg) | Org-N<br>(mg/kg) | Ammonia<br>(mg/kg) | Cr<br>(mg/kg) | % solids |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|--------------------|---------------|----------|
| <b>Result Plant 1</b> | 12            | 2.7           | 450           | <25           | 1.3           | 15            | 43            | 9.3           | 630           | 56,000           | 6,200              | 44            | 17       |
| <b>Result Plant 2</b> | 10            | 3.1           | 460           | <20           | 1.2           | 16            | 32            | 8.8           | 720           | 44,000           | 5,200              | 47            | 21       |
| <b>Table 3</b>        | 41            | 39            | 1,500         | 300           | 17            | N/A           | 420           | 100           | 2,800         | N/A              | N/A                | N/A           | N/A      |
| <b>Table 1</b>        | 75            | 85            | 4,300         | 840           | 57            | 75            | 420           | 100           | 7,500         | N/A              | N/A                | 3,000         | N/A      |

### Class B Pathogen Reduction

Class B pathogen reduction requirements from 40 CFR part 503 and Arizona Administrative Code R18-9-1006-(E) have been met via anaerobic digestion under the following parameters:

|         | Mean Residence Time (days) |     | Mean minimum Temperature (°F)<br>(All digesters) |
|---------|----------------------------|-----|--|
|         | Min                        | Max |  |
| Plant 1 | 17                         | 19  | 99   |
| Plant 2 | 24                         | 24  | 99 - 101   |

### Vector Attraction Reduction

The vector attraction reduction requirements of 40 CFR part 503 and Arizona Administrative Code R18-9-1010(A) have been met using data (may be averages) analyzed by an Arizona certified laboratory to comply with Option 1.

|         | % Volatile Solids |     |           |
|---------|-------------------|-----|-----------|
|         | In                | Out | Reduction |
| Plant 1 | 3.1               | 1.5 | 54        |
| Plant 2 | 3.8               | 1.5 | 62        |

### 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.*

9/28/2016

10/3/2016

10/2/2016

X

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X

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## Biosolids Notice and Necessary Information – Addendum

### Individual Digester Mean Cell Residence Times and Minimum Temperatures

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

**Monitoring Period:** June 1- 30, 2016

#### OCSD Plant 1

|   | Dig. 7 | Dig. 8 | Dig. 9 | Dig. 10 | Dig. 11 | Dig. 12 | Dig. 13 | Dig. 14 | Dig. 15 | Dig. 16 |
|---|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| <b>Minimum Mean Cell Residence Time (days)*</b> | 17     | 16     | 17     | 17      |         |         |         | 16      | 18      | 18      |
| <b>Minimum Temperature (°F)</b>                 | 99     | 99     | 99     | 99      |         |         |         | 99      | 99      | 99      |

Shaded box represents Digester is Out of Service.  
 \*MCRT based on a 15-Day Rolling Average.

#### OCSD Plant 2

|   | 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 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Minimum Mean Cell Residence Time (days)*</b> | 23     | 23     | 21     | 22     | 22     |        | 23     |        | 23     |        | 22     | 22     | 22     | 23     | 22     | 22     | 23     |
| <b>Minimum Temperature (°F)</b>                 | 100    | 100    | 100    | 99     | 100    |        | 100    |        | 99     |        | 99     | 99     | 100    | 100    | 101    | 100    | 100    |

Shaded box represents Digester is Out of Service.  
 \*MCRT based on a 15-Day Rolling Average.