



*Plant No. 1 truck loading and centrifuge facilities with trickling filter clarifiers in the foreground.*

**ORANGE COUNTY SANITATION DISTRICT**  
**BIOSOLIDS MANAGEMENT**  
**COMPLIANCE REPORT**

**EPA 40 CFR Part 503**  
**Year 2020**

February 11, 2021

Hope Smythe, Executive Officer  
California Regional Water Quality Control Board, Santa Ana Region  
3737 Main Street, Suite 500  
Riverside, CA 92501-3348

SUBJECT: Orange County Sanitation District Annual Compliance Report

Enclosed please find the Orange County Sanitation District (OC San) Biosolids Management Compliance Report as required under the 40 CFR Part 503 regulations, Arizona Administrative Code Article 10, and the National Pollution Discharge Elimination System (NPDES) Permit No. CA0110604, Order No. R8-2012-0035.

OC San has uploaded this report into the EPA biosolids electronic reporting database and submitted e-mail copies to state and local regulators. A copy of OC San's EPA electronic report is included as Appendix D.

**Certification Statement**

The following certifications satisfy procedural requirements as listed in section V.B.5 of the Orange County Sanitation District NPDES Permit No. CA0110604 and 40 CFR part 503, section 503.17 for the submittal of the attached compliance report for calendar year 2020.

*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.*

If you have any questions or comments regarding this packet of information or require any additional data, please contact Deirdre Bingman at (714) 593-7459. I can be reached at (714) 593-7450.

**Wiborg,  
Lan**

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Lan C. Wiborg, MPH  
Director of Environmental Services

LW/DEB:pe

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Enclosures

- Serving:*
- Anaheim
  - Brea
  - Buena Park
  - Cypress
  - Fountain Valley
  - Fullerton
  - Garden Grove
  - Huntington Beach
  - Irvine
  - La Habra
  - La Palma
  - Los Alamitos
  - Newport Beach
  - Orange
  - Placentia
  - Santa Ana
  - Seal Beach
  - Stanton
  - Tustin
  - Villa Park
  - County of Orange
  - Costa Mesa Sanitary District
  - Midway City Sanitary District
  - Irvine Ranch Water District
  - Yorba Linda Water District





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February 11, 2021

Sondra Francis  
 Arizona Department of Environmental Quality  
 Water Permits Section  
 1110 West Washington Street, 5415-B-3  
 Phoenix, AZ 85007

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OC San has uploaded this report into EPA biosolids electronic reporting database and submitted e-mail copies to state and local regulators. A copy of OC San's Arizona biosolids annual reporting form is included as Appendix E, and the EPA electronic report is included as Appendix D.

**Certification Statement**

The following certifications satisfy procedural requirements as listed in Arizona Administrative Code Article 10 under section R18-9-1013 for the submittal of the attached EPA 40 CFR Part 503 Compliance Report for calendar year 2020.

*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.*

If you have any questions or comments regarding this packet of information or require any additional data, please contact Deirdre Bingman at (714) 593-7459. I can be reached at (714) 593-7450.

Wiborg, Lan

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Lan C. Wiborg, MPH  
 Director of Environmental Services

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- Midway City Sanitary District
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- Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids

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- Biosolids Program History



# **2020 BIOSOLIDS MANAGEMENT COMPLIANCE REPORT**

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**Introduction**  
**Organization and Function**  
**Accomplishments**  
**Treatment Plants and Program Updates**  
**Biosolids Management**  
**Summary of Pollutants**  
**Determination of Hazardousness**  
**Biosolids Management System**

## Introduction

The Orange County Sanitation District (OC San) treats and manages its biosolids, the nutrient-rich, organic matter recovered through the treatment of wastewater. OC San's Biosolids Program consists of processes to ensure solids are treated onsite and used offsite (recycled) in accordance with all local, state, and federal regulations and best management practices.

OC San treats and manages its biosolids in accordance with OC San's National Pollutant Discharge Elimination System (NPDES) Permit No. CA0110604 (NPDES), Arizona Administrative Code Title 18, Ch. 9, Article 10 (R18-9), and EPA Code of Federal Regulations Title 40 Part 503 (503).

The following sections summarize OC San's activities and performances for the compliance-reporting period of January 1 to December 31, 2020.

## Organization and Function

OC San is a public agency that provides wastewater collection, treatment, and recycling services for approximately 2.6 million people in central and northwest Orange County, California. OC San is a special district that is governed by a Board of Directors consisting of 25 board members appointed from 20 cities, 4 special districts, and 1 representative from the Orange County Board of Supervisors. OC San has two plants that treat wastewater from residential, commercial, and industrial sources.

- During this budgetary fiscal year (2019-2020) OC San treated an average daily sewage influent flow of **188 million gallons per day (MGD)**.
- During this last calendar year (2020) OC San produced **206,896 wet tons of biosolids (47,106 dry metric tons)**, which equates to an average of **567 wet tons per day of biosolids**. No digester cleaning material was managed this year.

## Accomplishments

Despite the global pandemic, OC San continued the work at hand and has several accomplishments to highlight this year including:

- Recycled 100% of OC San's biosolids.
- A pandemic contingency hauling plan was added into the Biosolids Section of the Integrated Emergency Response Plan in the case that COVID-19 impacted haulers.
- OC San issued a request for proposals for digester cleaning maintenance in June 2020 and awarded the multi-year contract to American Processing Group (APG) in October 2020. APG began cleaning digesters in January 2021.
- Food Waste Treatment Policy Initiative: As part of the implementation of the 2017 Biosolids Master Plan, 2019 Strategic Plan, and as part of the General Manager's

Work Plan goal for Fiscal Year 2020-21, OC San is conducting a market assessment of available food waste feedstock for co-digestion and securing bids to construct P2-124 “Interim Food Waste Receiving Facility” at Plant No. 2. Several prospective municipal solid waste haulers have expressed interest in providing food waste feedstock, which OC San is currently evaluating. Bid opening for P2-124 was in January 2021, and bid selection is in progress. This project is designed to receive approximately 150 wet tons of pre-processed food waste to be co-digested in OC San’s anaerobic digesters at Plant No. 2. The added organic feedstock will account for about a 10% increase of biogas production that will be used to generate electricity.

- Biosolids Management Policy Initiative – Biosolids Thermal Conversion: As directed by the 2019 Strategic Plan, a request for information (RFI) was issued for biosolids thermal conversion technologies (BTC) in April 2020. This process continues into 2021 with contract negotiations to add a BTC process that may potentially serve as a PFAS-reduction demonstration facility as a biosolids management option.
- OC San’s Research Program continues to stay abreast of advanced technologies. Participation in the International Technology Advisory Group (iTAG) is an integral part of OC San’s Research Program. The iTAG screens and evaluates potential beneficial technologies for the wastewater industry. Annually, OC San hosts the iTAG and invites other wastewater treatment agencies to learn of the most promising technologies at which time agencies may choose to pilot. OC San continues to stay current in biosolids and energy recovery technologies through this process.
- OC San’s Awards and Honors ([www.ocsd.com/about-us/awards-and-honors](http://www.ocsd.com/about-us/awards-and-honors)) webpage features many 2020 awards, including:
  - National Association of Clean Water Agencies (NACWA) Platinum Award and Gold Excellence in Management Recognition,
  - Utility of the Future Today Award from the Water Environment Federation for OC San efforts in energy generation and recovery, and
  - Grand prize from the American Academy of Environmental Engineers and Scientists for the Climate Resiliency and Adaptation Plan.

## **Treatment Plants and Program Updates**

Reclamation Plant No. 1, located in the city of Fountain Valley, treated an average of 119 MGD of wastewater. Treatment Plant No. 2, located in the City of Huntington Beach, treated an average of 69 MGD of wastewater during the most recent fiscal year.

The Plant No. 1 diversion of primary sludge from Plant No. 1 to Plant No. 2 via the interplant sludge line effectively ceased by March 2020 with the new thickening centrifuges providing additional capacity for solids treatment at Plant No. 1.

Dewatered biosolids averaged 24% total solids at Plant No. 1 and 27% total solids at Plant No. 2. The 2019 commissioning of dewatering centrifuges at both plants reduced biosolids production by about 35% (2018 vs. 2020). More detailed data, including

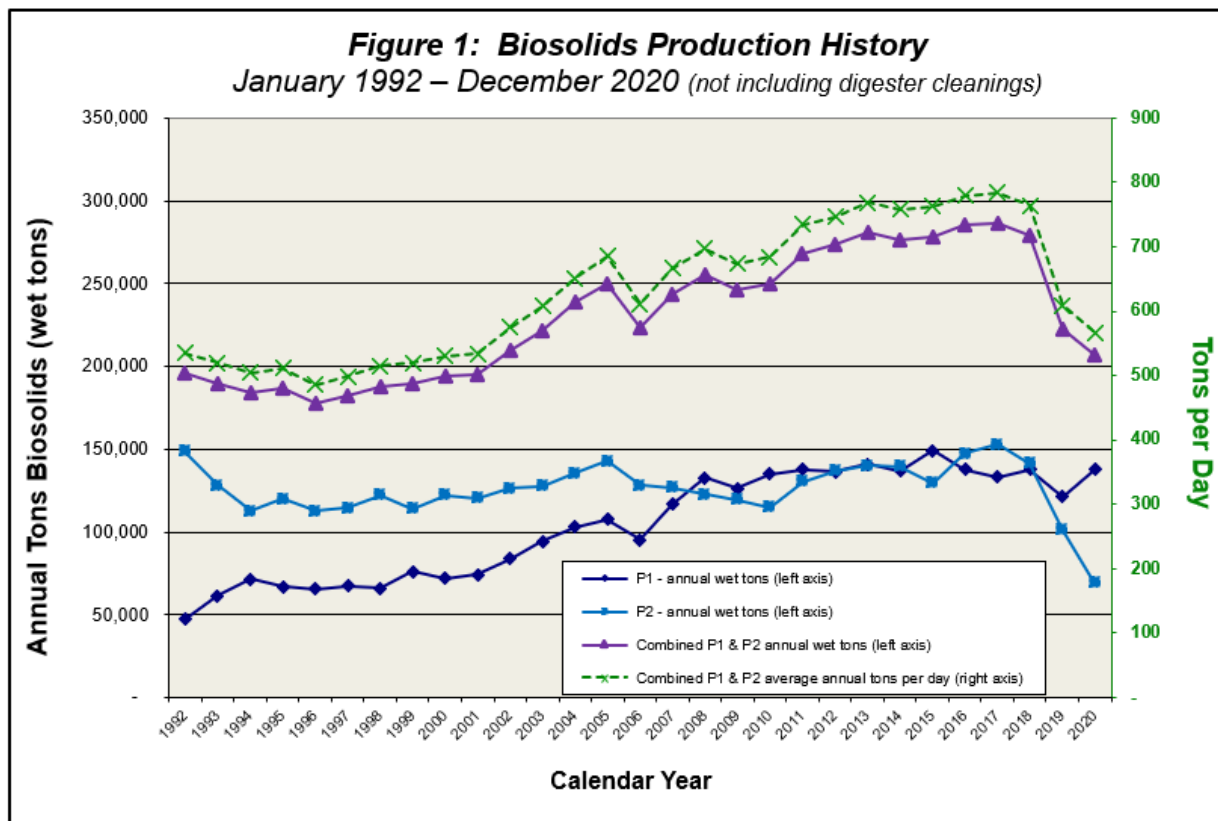


monthly averages, annual totals and analytical results, can be viewed in Figure 1 and Table 2 below, as well as in Appendices A, B, C, and D.

The Irvine Ranch Water District (IRWD) historically discharged its untreated solids (sludge) to OC San. IRWD is completing commissioning its new solids treatment facility and have been ramping down the volume of solids discharged to OC San as the new facilities are coming online. OC San saw a reduction in biosolids at the end of the year and anticipate an additional incremental reduction in early 2021 when the facilities are fully commissioned.

OC San’s biosolids are digested for at least 15 days at a minimum of 95 degrees Fahrenheit, with a volatile solids destruction of at least 38%. OC San’s anaerobically digested biosolids meet compliance with the “Class B Pathogen Reduction” and “Vector Attraction Reduction” definition for “Class B” biosolids as defined in 40 CFR Part 503.32(b)(3) (PSRP 3) and 503.33(b)(1). In addition, Tule Ranch-AgTech’s standard operating procedure includes biosolids incorporation within six (6) hours which meets 40 CFR Part 503.33(b)(10) requirement and is a valuable redundancy in rare events when OC San experiences challenges meeting the Vector Attraction Reduction standard.

See Accomplishments section for an update on the new digester cleaning contract.



## Biosolids Management

For this reporting period, biosolids produced at OC San's two treatment facilities were managed by the contractors listed below in Table 1.

Table 1- Biosolids Management Contractors	
<p><b>Synagro - Nursery Products</b>            PO Box 1439            Helendale, CA 92342            Contact: Venny Vasquez            Phone: (760) 265-5210            Email: vvasquez@SYNAGRO.com</p>	<p><b>Synagro – South Kern Compost Manufacturing Facility</b>            PO Box 265            Taft, CA 93268            Contact: Rob Rankin            Phone: (661) 765-2200            Email: rrankin@SYNAGRO.com</p>
<p><b>Liberty Compost</b>            12421 Holloway Rd.            Lost Hills, CA 93249            Contact: Patrick McCarthy            Phone: (661) 797-2914            Email: patrickmccarthy@mccarthyfarms.com</p>	<p><b>Synagro – Arizona Soils</b>            5615 S. 91st Avenue            Tolleson, AZ 85353            Contact: Craig Geyer            Phone: (623) 936-6328            Email: CGeyer@SYNAGRO.com</p>
<p><b>Tule Ranch / Ag-Tech</b>            4324 E. Ashlan Ave.            Fresno, CA 93726            Contact: Shaen Magan            Phone: (559) 970-9432            Email: kurt@westexp.com</p>	<p><b>Inland Empire Regional Composting Authority</b>            12645 6th Street            Rancho Cucamonga, CA 91739            Contact: Jeff Ziegenbein            Phone: (909) 993-1981            Email: jziegenbein@ieua.org</p>

These contractors provide OC San with biosolids management diversification and reliability, and are therefore important partners to OC San. These contractors submit their annual compliance reports directly to EPA, in accordance with OC San’s NPDES permit requirements. For this reporting period, OC San’s biosolids were beneficially reused as illustrated in Table 2. More detailed breakdowns are available in Appendices A and D.

**Table 2- Biosolids Managed Tonnage Distribution**

Quantity Generated	Plant No. 1	Plant No. 2	Total	Relative %
Synagro - Nusery Products CA - (compost) (wet tons)	75,410	0	75,410	36%
Synagro - Nusery Products CA - (compost) (dry metric tons)	16,708	0	16,708	
Synagro - South Kern - compost (wet tons)	3,120	0	3,120	1.5%
Synagro - South Kern - compost (dry metric tons)	698	0	698	
Synagro - AZ Soils - compost (wet tons)	880	700	1,580	0.8%
Synagro - AZ Soils - compost (dry metric tons)	194	151	345	
Liberty Compost CA (wet tons)	33,398	6,772	40,170	19%
Liberty Compost CA (dry metric tons)	7,401	1,597	8,998	
Inland Empire Regional Composting (wet tons)	0	7,304	7,304	3.5%
Inland Empire Regional Composting (dry metric tons)	0	1,722	1,722	
Tule Ranch AZ (land application) (wet tons)	24,801	54,512	79,313	38%
Tule Ranch AZ (land application) (dry metric tons)	5,498	13,137	18,635	
<b>Total Wet Tons</b>	<b>137,608</b>	<b>69,288</b>	<b>206,896</b>	<b>100%</b>
<b>Total Dry Metric Tons</b>	<b>30,499</b>	<b>16,607</b>	<b>47,106</b>	

### Summary of Pollutants

OC San’s Biosolids Monthly Compliance Reports (Appendix A) compare the concentration limits of the pollutants listed in 40 CFR 503 to OC San’s average biosolids concentrations for each plant. The average concentrations of all pollutants in OC San’s biosolids are typically an order of magnitude below the conservative *Table-1 Ceiling Limits* and *Table 3 Exceptional Quality Limits* found in 40 CFR Part 503, which were based on an extensive health risk assessment to ensure that biosolids are safe for recycle to build healthy soil.

Since 1976, OC San’s Pretreatment Program has been effective in lowering the average mass of metals discharged to the marine environment by 99% and the total mass of metals in the influent sewage by 84%, thereby ensuring OC San’s biosolids can be recycled to farm fields with low metals concentrations. Furthermore, OC San’s influent wastewater meets drinking water standards for metals. Appendix B contains the biosolids chapter excerpt of the OC San Pretreatment Program Annual Report ([ocsd.com/PreTreatAnnual](https://ocsd.com/PreTreatAnnual), Chapter 8) that includes graphs of metals in OC San’s biosolids.

In accordance with OC San’s NPDES permit, biosolids are also tested semi-annually for all pollutants listed under Section 307(a) of the Clean Water Act. Appendix C contains the summary of the priority pollutants analyzed in the plants’ biosolids.



## **Determination of Hazardousness**

OC San's biosolids' pollutant concentrations are significantly below the state and federal maximum contaminant concentrations for determining a hazardous waste. See OC San's biosolids monitoring data in Appendix C, Summary of Priority Pollutants and Trace Constituents Analysis.

### Legal Definitions

OC San's 2012 Ocean Discharge NPDES permit requires OC San to test its biosolids annually for hazardousness in accordance with 40 CFR Part 261. Hazardous waste is also defined under the provisions of California Code of Regulations, Title 22, Chapter 11, Article 5, and Arizona Revised Statutes, Title 49, Chapter 5, Article 2.

### Determination Summary

OC San's biosolids are determined to be non-hazardous based on the following evaluation:

- OC San's biosolids are not ignitable, corrosive, reactive, nor toxic in accordance with the federal regulatory definitions in 40 CFR Part 261.
- OC San performs semi-annual testing of an extensive list of organic and inorganic compounds to verify the continued non-hazardousness of our biosolids.
- When the results are non-detectable, OC San enters the method detection limit in the evaluation spreadsheet that compares the data to regulatory limits.

## **Biosolids Management System**

OC San continues to utilize a biosolids management system approach to effectively administer its biosolids program. The following sections highlight OC San's continued commitment to the biosolids management system.

### Communications

OC San has continued transparent communications during this reporting period. OC San shares timely updates including biosolids news, annual compliance reports, biosolids videos, updated OC San resources such as the biosolids allocation map and Biosolids Contractor Requirements document. In 2020 the following items were posted or updated on OC San's biosolids website:

- Monthly compliance reports and data ([ocsd.com/nani](https://ocsd.com/nani)),
- Annual compliance reports ([ocsd.com/503](https://ocsd.com/503)), and
- Biosolids allocation map ([ocsd.com/map](https://ocsd.com/map)).

### Contractor Oversight Program

OC San has continued our strong contractor oversight program:

- No Notice of Violations (NOVs) were issued for OC San's active biosolids contractors,

- Performed 9 contractor site inspections,
- No contractor issues,
- No inspection findings,
- No odor complaints, and
- Performed 55 hauling inspections, which reached 38 out of 39 regular drivers (97%) this year. There are 27 active drivers (69%) who are currently on OC San's "Honor Roll" for excellence in their truck cleanliness, knowledge of biosolids and emergency protocol by successfully passing three consecutive hauler inspections.

Goals and Targets

The 2019 Strategic Plan is a guiding document that provides a framework that directs our work. Every two years, the Strategic Plan is reviewed, updated, and submitted for approval by the Board of Directors. Two initiatives are related to biosolids (Food Waste Treatment Policy and Biosolids Management Policy) and updates are provided in the Accomplishments section. The Strategic plan is available on the OC San Strategic Planning website (<https://www.ocsd.com/services/strategic-planning>).

Biosolids Program Policy

The Biosolids Program Policy, originally adopted in 1999 and amended several times over the years, is a policy committing the agency to support biosolids beneficial reuse (organics recycling). The most recent commitments, OC San Resolution 13-03 ([www.ocsd.com/policy](http://www.ocsd.com/policy)), and OC San's performance relative to these commitments are reported below.

<b>Table 3 – Policy Performance</b>	
<b>Policy Commitment</b>	<b>2020 Performance</b>
<p>1. Commit to sustainable biosolids program.</p> <p>Support the recycling of biosolids.</p>	<p>OC San has demonstrated effective pretreatment, water and solids treatment operations, compliance, capital improvements, technology research and planning, and biosolids contractor oversight programs.</p> <p>See the Accomplishments at the beginning of this report.</p>
<p>2. Strive to balance financial, environmental, and societal considerations when making biosolids decisions.</p>	<p>OC San weighs these considerations and watches for issues that would alter the balance on a daily basis. See Ten Tenets reporting table below and the most current allocation map(<a href="http://www.ocsd.com/map">www.ocsd.com/map</a>), which demonstrate how OC San balances these considerations.</p>
<p>3. Utilize a biosolids management system to maintain a sustainable and publicly supported biosolids program.</p>	<p>OC San continues to maintain our biosolids management system as outlined in this section.</p>
<p>4. Diversify portfolio of offsite biosolids management options with multiple biosolids contractors, markets, facilities, and maintaining fail-safe</p>	<p>See Table 2 for breakdown of our active biosolids management options.</p> <p>See Table 4 for the Ten Tenets.</p>

<b>Table 3 – Policy Performance</b>	
<b>Policy Commitment</b>	<b>2020 Performance</b>
back-up capacity of at least 100% of its daily biosolids production.	
5. Research and implement ways to reduce the volume of biosolids at the treatment plants to minimize the need for offsite management.	<p>As mentioned in the “Treatment Plants and Program Updates” section above, OC San’s production of biosolids has reduced by 35% since the centrifuges fully commissioned in 2019 (2018 vs. 2020).</p> <p>OC San’s Research program actively seeks opportunities for process area improvements, including solids (see Accomplishments section).</p> <p>OC San is continuing to monitor the Supercritical Water Oxidation technology (<a href="http://www.scfi.eu">www.scfi.eu</a>) and the progress towards a feasible pilot plant.</p>
6. Support continuing research of biosolids benefits and potential safety concerns.	<p>In July 2020, the California State Water Resource Control Board issued OC San and most other treatment plants an order to sample our wastewater and biosolids for a list of polyfluoroalkyl constituents (abbreviated as PFAS). The quarterly sampling will start in the first quarter of 2021 and will conclude with the Summer 2021 sampling event. The State regulators will use this data to determine presence and absence of the constituents that will help in future policy or regulatory planning. In addition, OC San is supporting several PFAS research projects.</p> <p>OC San has access to the Northwest Biosolids’ library (<a href="http://www.nwbiosolids.org">www.nwbiosolids.org</a>). The library contains references to over 2,600 biosolids-related research articles references. Northwest Biosolids sends a monthly theme-based, relevant summary of research to its members, so we can easily digest pertinent scientific information and better communicate with interested parties. Northwest Biosolids also has a free monthly e-Bulletin for non-members.</p> <p>See Research Program in Accomplishments.</p>
7. Demonstrate the benefits of biosolids compost by using it at the District’s facilities.	<p>OC San maintains compost piles at each plant. This compost is available to our employees and our landscape contractor to demonstrate the benefits of compost. OC San encourages employees to share their compost use photos.</p> <p>OC San continues long-term monitoring of our composted biosolids demonstration planter that contains drought-tolerant and native species.</p>



## Ten Tenets of OC San's Biosolids Management Plan

Read more on OC San's Ten Tenets and the Biosolids Master Plan at [ocsd.com/bmp](https://ocsd.com/bmp).

Table 4 – Ten Tenets of Biosolids Management Performance	
Tenet Commitment	2020 Performance
1. Allocate up to 50 percent of biosolids per biosolids contractor.	Each contractor received <b>less than 50%</b> of OC San's biosolids. See Table 2 for relative tonnage distribution this year. See OC San's current map of where OC San's biosolids are allocated at <a href="https://ocsd.com/map">ocsd.com/map</a> .
2. Allocate up to 50 percent of biosolids to each geographic end use market.	<p><b>Sixty two percent (62%)</b> of OC San's biosolids were turned into <b>compost at five (5) regional facilities</b>. Combined, these facilities distributed <b>221,561 tons</b> of composted biosolids in the following <b>11 geographic markets</b> (almost doubling counties from 2019):</p> <ul style="list-style-type: none"> <li>• 28.7% to San Bernardino County (<b>7% decrease</b> over last year),</li> <li>• 24.9% to Riverside County (<b>8% decrease</b> over last year),</li> <li>• 13.8% to Kern County (<b>2% decrease</b> over last year),</li> <li>• 11.8% to Los Angeles County (<b>3% increase</b> over last year),</li> <li>• 5.3% to Orange County (<b>4% increase</b> over last year),</li> <li>• 4.2% to Madera County (<b>4.2% increase</b> over last year),</li> <li>• 3.5% to San Diego County (<b>4% increase</b> over last year),</li> <li>• 2.7% to Maricopa County, Arizona (<b>3% decrease</b> over last year),</li> <li>• 2.2% to Fresno County (<b>2% increase</b> over last year),</li> <li>• 1.9% Kings County (<b>2% increase</b> over last year),</li> <li>• 0.9% Tulare County (<b>1% increase</b> over last year), and</li> <li>• 0.2% Clark County, Nevada (<b>0.2% increase</b> over last year).</li> </ul> <p>The remaining <b>38%</b> of OC San's biosolids were used to raise crops, producing <b>7,975 tons of sudan, oats, sorghum, and alfalfa for use in Arizona, California, and New Mexico</b>.</p>
3. Maintain at least three (3) different biosolids management facilities at any time.	OC San maintained <b>five (5)</b> different management facilities. See Table 2 for relative tonnage distribution this year. See OC San's current map of where OC San's biosolids are allocated at <a href="https://ocsd.com/map">ocsd.com/map</a> .
4. Maintain at least two (2) different biosolids management practices at any time.	OC San maintained <b>two (2)</b> different management practices, composting and land application (direct farming of feed crops with biosolids). See Table 2 for relative tonnage distribution this year. See OC San's current map of where OC San's biosolids are allocated at <a href="https://ocsd.com/map">ocsd.com/map</a> .
5. Maintain at least two (2) different hauling companies within the biosolids management portfolio.	OC San and its biosolids management contractors utilized <b>three (3)</b> different hauling companies (GIC, Tule Ranch/Western Express, and Denali Water Solutions).

<b>Table 4 – Ten Tenets of Biosolids Management Performance</b>	
<b>Tenet Commitment</b>	<b>2020 Performance</b>
6. Maintain at least 200 percent (2 times daily production) contingency capacity at end use sites.	OC San maintained biosolids management site contingency capacity of at least <b>1250% (12.5 times daily production)</b> .
7. Maintain 20 percent (1.2 times daily production) fail-safe hauling capacity.	OC San maintained a range of <b>42-92% (1.4-1.9 times daily production)</b> fail-safe hauling capacity.
8. Track and encourage development of emerging markets and/or end uses for biosolids, especially for local end use options.	The <a href="#">2019 Strategic Plan</a> developed by the Board of Directors and staff defines the strategic initiatives to be pursued by OC San and provides a basis for long-term financial, capital, and operational planning. The Biosolids Management Policy initiative in the document includes commitments to educate and advocate with the local, state, and federal agencies to assure biosolids will continue to be safely and legally used as a soil amendment and monitor and research constituents of emerging concern such as PFAS and microplastics that may impact biosolids. See the Accomplishments section for an update on OC San's efforts this year on the Food Waste Treatment Policy and Biosolids Management Policy.
9. Allocate up to 10 percent of total biosolids production for participation in emerging markets, including participation in pilot or demonstration projects.	See the Accomplishments section for an update on OC San's efforts this year on the Biosolids Management Policy Initiative, which included a 2020 RFI for biosolids thermal conversion facilities.
10. Explore partnerships with area soil blenders to allow incorporation of OC San's Class A product into local markets.	OC San is following the work being done by San Francisco Public Utilities Commission on their research and development of their temperature-phase anaerobically digested biosolids soil blend product. In particular, the blend and product distribution to local markets. OC San's efforts will follow suit at the appropriate time since OC San facilities are expected to be commissioned in about 2030.

## **APPENDIX A**

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**Table 1: OCSD Biosolids Wet and Dry Tonnage Distribution, Plant No. 1**  
**Table 2: OCSD Biosolids Wet and Dry Tonnage Distribution, Plant No. 2**  
**Biosolids Monthly Compliance Reports, January – December 2020**

# Table 1: OCSD Biosolids Wet and Dry Tonnage Distribution

Reclamation Plant No. 1, Fountain Valley, CA

Biosolids Generated	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average	
Biosolids Total Solids (%)	24	25	24	23	25	25	25	24	24	25	24	25	24	
Management Locations	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total	
Synagro - Nusery Products CA - compost (wet tons)	7,149	6,959	6,775	5,674	6,523	6,674	6,555	6,520	6,474	5,832	4,897	5,376	75,410	Total Wet Tons  137,608
Synagro - Nusery Products CA - compost (dry metric tons)	1,556	1,578	1,475	1,184	1,479	1,513	1,486	1,419	1,409	1,322	1,066	1,219	16,708	
Synagro - South Kern - compost (wet tons)	0	0	0	0	0	0	0	0	0	756	1,057	1,306	3,120	
Synagro - South Kern - compost (dry metric tons)	0	0	0	0	0	0	0	0	0	172	230	296	698	
Synagro - AZ Soils - compost (wet tons)	0	0	24	277	479	100	0	0	0	0	0	0	880	
Synagro - AZ Soils - compost (dry metric tons)	0	0	5	58	109	23	0	0	0	0	0	0	194	
Liberty Compost CA (wet tons)	2,674	2,425	2,326	2,655	3,059	2,731	2,679	3,133	2,759	2,835	2,760	3,360	33,398	
Liberty Compost CA (dry metric tons)	582	550	506	554	694	619	607	682	601	643	601	762	7,401	
Inland Empire Regional Composting (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Inland Empire Regional Composting (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tule Ranch AZ - land application (wet tons)	2,253	2,304	1,919	1,016	1,711	1,296	1,818	3,129	2,362	2,434	2,175	2,384	24,801	
Tule Ranch AZ - land application (dry metric tons)	490	522	418	212	388	294	412	681	514	552	473	540	5,498	
<b>Total Wet Tons</b>	<b>12,076</b>	<b>11,688</b>	<b>11,044</b>	<b>9,622</b>	<b>11,772</b>	<b>10,801</b>	<b>11,053</b>	<b>12,783</b>	<b>11,595</b>	<b>11,859</b>	<b>10,889</b>	<b>12,426</b>	<b>137,608</b>	
<b>Total Dry Metric Tons</b>	<b>2,629</b>	<b>2,650</b>	<b>2,404</b>	<b>2,007</b>	<b>2,669</b>	<b>2,449</b>	<b>2,506</b>	<b>2,783</b>	<b>2,524</b>	<b>2,689</b>	<b>2,370</b>	<b>2,818</b>	<b>30,499</b>	
Digester Cleanings	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total	
<b>Digester Cleaning Total Solids Percent (average)</b>														
Synagro AZ Soils (compost) (wet tons) (digester cleanings only)	0	0	0	0	0	0	0	0	0	0	0	0	0	Total Dry Tons  30,499
Synagro, AZ Soils (compost) (dry metric tons) (digester cleanings only)	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Synagro Nursery Products (compost) (wet tons) (digester cleanings only)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro, Nursery Products (compost) (dry metric tons) (digester cleanings only)	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
<b>Digester Cleaning Total Wet Tons</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>Total Dry Metric Tons</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	
<b>Total Wet Tons (Biosolids plus Digester Cleanings)</b>	<b>12,076</b>	<b>11,688</b>	<b>11,044</b>	<b>9,622</b>	<b>11,772</b>	<b>10,801</b>	<b>11,053</b>	<b>12,783</b>	<b>11,595</b>	<b>11,859</b>	<b>10,889</b>	<b>12,426</b>	<b>137,608</b>	
<b>Total Dry Metric Tons (Biosolids plus Digester Cleanings)</b>	<b>2,629</b>	<b>2,650</b>	<b>2,404</b>	<b>2,007</b>	<b>2,669</b>	<b>2,449</b>	<b>2,506</b>	<b>2,783</b>	<b>2,524</b>	<b>2,689</b>	<b>2,370</b>	<b>2,818</b>	<b>30,499</b>	

## Table 2: OCSD Biosolids Wet and Dry Tonnage Distribution

Wastewater Treatment Plant No. 2, Huntington Beach, CA

<b>Biosolids Generated</b>	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average	
Biosolids Total Solids (%)	26	28	27	23	26	27	28	27	27	27	26	27	27	
<b>Management Locations</b>	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	<b>Total</b>	
Synagro - Nusery Products CA - compost (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>Total Wet Tons 69,288</b>
Synagro - Nusery Products CA - compost (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro - South Kern - compost (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro - South Kern - (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro- AZ Soils-compost (wet tons)	0	0	24	526	150	0	0	0	0	0	0	0	700	
Synagro - AZ Soils-compost (dry metric tons)	0	0	6	110	35	0	0	0	0	0	0	0	151	
Liberty Compost CA (wet tons)	811	1,703	1,241	25	330	457	606	379	611	304	178	127	6,772	
Liberty Compost CA (dry metric tons)	191	402	293	6	78	108	143	89	144	72	42	30	1,597	
Inland Empire Regional Composting (wet tons)	688	490	420	0	297	742	767	791	765	790	812	741	7,304	
Inland Empire Regional Composting (dry metric tons)	162	115	99	0	70	175	181	186	180	186	192	175	1,722	
Tule Ranch AZ - land application (wet tons)	5,050	5,198	4,985	4,716	5,211	5,264	4,228	3,742	4,019	4,200	3,722	4,176	54,512	
Tule Ranch AZ - land application (dry metric tons)	1,191	1,320	1,221	984	1,229	1,289	1,074	916	984	1,029	878	1,023	13,137	
<b>Biosolids Total Wet Tons</b>	<b>6,550</b>	<b>7,390</b>	<b>6,670</b>	<b>5,267</b>	<b>5,988</b>	<b>6,463</b>	<b>5,602</b>	<b>4,912</b>	<b>5,395</b>	<b>5,294</b>	<b>4,713</b>	<b>5,044</b>	<b>69,288</b>	
<b>Total Dry Metric Tons</b>	<b>1,545</b>	<b>1,837</b>	<b>1,618</b>	<b>1,099</b>	<b>1,412</b>	<b>1,572</b>	<b>1,398</b>	<b>1,192</b>	<b>1,309</b>	<b>1,287</b>	<b>1,111</b>	<b>1,227</b>	<b>16,607</b>	
<b>Digester Cleanings</b>	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	<b>Total</b>	
<b>Digester Cleaning Total Solids Percent (average)</b>														
Synagro AZ Soils (compost) (wet tons) (digester cleanings only)	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>Total Dry Tons 16,607</b>
Synagro, AZ Soils (compost) (dry metric tons) (digester cleanings only)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro Nursery Products (compost) (wet tons) (digester cleanings only)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro, Nursery Products (compost) (dry metric tons) (digester cleanings only)	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Digester Cleaning Total Wet Tons</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>Total Dry Metric Tons</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>Total Wet Tons (Biosolids plus Digester Cleanings)</b>	<b>6,550</b>	<b>7,390</b>	<b>6,670</b>	<b>5,267</b>	<b>5,988</b>	<b>6,463</b>	<b>5,602</b>	<b>4,912</b>	<b>5,395</b>	<b>5,294</b>	<b>4,713</b>	<b>5,044</b>	<b>69,288</b>	
<b>Total Dry Metric Tons (Biosolids plus Digester Cleanings)</b>	<b>1,545</b>	<b>1,837</b>	<b>1,618</b>	<b>1,099</b>	<b>1,412</b>	<b>1,572</b>	<b>1,398</b>	<b>1,192</b>	<b>1,309</b>	<b>1,287</b>	<b>1,111</b>	<b>1,227</b>	<b>16,607</b>	





## 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:** January 1- 31, 2020

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):** 01/21/20, 01/28/20

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	1.2	9.2	1.8	51	550	14	16	38	12	820	8,100	44,000	52,000	8.1	23	59
<b>Plant 1 Avg</b>	1.2	8.8	1.7 DNQ	50	530	13	16	37	12	800	6,600	44,000	52,000		24	
<b>Plant 2 Max/Min*</b>	0.98	12	2.6	45	470	28	16	36	12	750	6,800	45,000	52,000	7.9	25	54
<b>Plant 2 Avg</b>	0.51 DNQ	12	2.6	45	450	24	16	36	12	740	5,000	45,000	52,000		26	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

<b>OCSD Plant 1</b>	<b>System Summary</b>	<b>Dig. 7</b>	<b>Dig. 8</b>	<b>Dig. 9</b>	<b>Dig. 10</b>	<b>Dig. 11</b>	<b>Dig. 12</b>	<b>Dig. 13</b>	<b>Dig. 14</b>	<b>Dig. 15</b>	<b>Dig. 16</b>
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	29	27	29	Out of Service	29	30	30	30	30	26	26
<b>Minimum Temperature (Min 95 °F)</b>	97	98	98	Out of Service	97	98	99	98	98	98	98

<b>OCSD Plant 2</b>	<b>System Summary</b>	<b>Dig. C</b>	<b>Dig. D</b>	<b>Dig. E</b>	<b>Dig. F</b>	<b>Dig. G</b>	<b>Dig. H</b>	<b>Dig. I</b>	<b>Dig. J</b>	<b>Dig. L</b>	<b>Dig. M</b>	<b>Dig. N</b>	<b>Dig. O</b>	<b>Dig. P</b>	<b>Dig. Q</b>	<b>Dig. R</b>	<b>Dig. S</b>	<b>Dig. T</b>
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	26	26	26	26	Out of Service	Out of Service	27	Out of Service	Out of Service	26	26	27	Out of Service	27	27	26	Out of Service	27
<b>Minimum Temperature (Min 95 °F)</b>	98	100	99	100	Out of Service	Out of Service	99	Out of Service	Out of Service	100	100	99	Out of Service	98	100	98	Out of Service	100

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.



## 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: January 1- 31, 2020

### 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.*

Jim Spears  
Operations Manager

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Ron Coss  
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Cindy Vellucci

Deirdre Bingman

Rachel Van Exel

  
Peter Park  
Peter Park (Apr 13, 2020)

Peter Park

  
Lan C. Wiborg  
Lan C. Wiborg (Apr 13, 2020)

Lan Wiborg



## 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:** February 1- 29, 2020

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):** 02/18/2020, 02/25/2020

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	0.87	<6.2	2.3	49	540	12	18	42	<3.8	710	9,300	45,000	54,000	7.9	24	52
<b>Plant 1 Avg</b>	0.75	<6.2	2.1 DNQ	45	510	12	16	39	<3.8	680	8,700	44,000	53,000		25	
<b>Plant 2 Max/Min*</b>	0.95	<5.6	2.4	43	460	17	17	48	<3.4	660	8,800	44,000	53,000	8.0	27	64
<b>Plant 2 Avg</b>	0.79	<5.6	2.2	38	410	16	15	40	<3.4	610	7,800	44,000	52,000		28	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

<b>OCSD Plant 1</b>	<b>System Summary</b>	<b>Dig. 7</b>	<b>Dig. 8</b>	<b>Dig. 9</b>	<b>Dig. 10</b>	<b>Dig. 11</b>	<b>Dig. 12</b>	<b>Dig. 13</b>	<b>Dig. 14</b>	<b>Dig. 15</b>	<b>Dig. 16</b>
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	27	24	28	Out of Service	33	28	28	28	28	24	24
<b>Minimum Temperature (Min 95 °F)</b>	98	99	98	Out of Service	99	99	99	99	99	99	98

<b>OCSD Plant 2</b>	<b>System Summary</b>	<b>Dig. C</b>	<b>Dig. D</b>	<b>Dig. E</b>	<b>Dig. F</b>	<b>Dig. G</b>	<b>Dig. H</b>	<b>Dig. I</b>	<b>Dig. J</b>	<b>Dig. L</b>	<b>Dig. M</b>	<b>Dig. N</b>	<b>Dig. O</b>	<b>Dig. P</b>	<b>Dig. Q</b>	<b>Dig. R</b>	<b>Dig. S</b>	<b>Dig. T</b>
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	25	24	24	24	Out of Service	Out of Service	24	Out of Service	Out of Service	24	24	24	Out of Service	24	24	26	Out of Service	24
<b>Minimum Temperature (Min 95 °F)</b>	99	100	100	99	Out of Service	Out of Service	99	Out of Service	Out of Service	99	100	100	Out of Service	99	99	99	Out of Service	100

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.



# 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:** February 1- 29, 2020

## 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.*

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Cindy Vellucci

Deirdre Bingman

Rachel Van Exel

Peter Park

Lan Wiborg





## 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:** March 1- 31, 2020

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):** 03/17/2020, 03/24/2020

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	0.70	<1.4	1.9	50	620	13	17	40	<.99	830	8,000	47,000	55,000	7.9	24	61
<b>Plant 1 Avg</b>	0.67	<1.4	1.9	46	600	13	17	36	<.99	750	8,000	45,000	53,000		24	
<b>Plant 2 Max/Min*</b>	0.67	<1.3	3.1	46	540	19	20	46	<.91	780	5,500	49,000	54,000	8.0	26	57
<b>Plant 2 Avg</b>	0.58	<1.3	2.9	44	540	18	19	43	<.91	750	5,300	48,000	53,000		27	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	25	25	25	Out of Service	25	25	25	25	25	25	25
<b>Minimum Temperature (Min 95 °F)</b>	99	99	104	Out of Service	99	99	99	99	99	99	99

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
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	25	25	25	25	Out of Service	Out of Service	25	Out of Service	Out of Service	25	25	26	Out of Service	25	25	25	Out of Service	25
<b>Minimum Temperature (Min 95 °F)</b>	98	99	99	99	Out of Service	Out of Service	98	Out of Service	Out of Service	99	98	100	Out of Service	99	99	100	Out of Service	100

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.





# 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:** March 1- 31, 2020

## 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.*

Jim Spears  
Operations Manager

[jspears@ocsd.com](mailto:jspears@ocsd.com)  
(714) 593-7081

Ron Coss  
Laboratory, Monitoring &  
Compliance Manager

[rcoss@ocsd.com](mailto:rcoss@ocsd.com)  
(714) 593-7508

			 <small>Peter Park (May 14, 2020 14:41 PDT)</small>	 <small>Lan C. Wiborg (May 14, 2020 14:45 PDT)</small>
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Cindy Vellucci

Deirdre Bingman

Rachel Van Exel

Peter Park

Lan Wiborg



# 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: April 1- 30, 2020

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): 04/21/20, 04/28/20

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	1.8	<1.6	2.1	50	560	14	19	40	<1.2	790	9,300	60,000	69,000	8.2	20	64
<b>Plant 1 Avg</b>	1.2	<1.6	2.0	50	550	14	19	39	<1.2	790	8,600	51,000	59,000		23	
<b>Plant 2 Max/Min*</b>	0.62	<1.7	4.0	55	630	21	27	52	<1.2	960	7,300	66,000	73,000	8.1	19	62
<b>Plant 2 Avg</b>	0.52	<1.7	3.4	49	550	20	24	46	<1.2	890	6,300	57,000	63,000		23	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	28	28	28	Out of Service	27	28	28	28	28	27	28
<b>Minimum Temperature (Min 95 °F)</b>	98	98	98	Out of Service	99	99	98	99	99	99	99

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
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	29	29	29	29	Out of Service	Out of Service	31	Out of Service	Out of Service	29	29	31	Out of Service	29	29	29	Out of Service	31
<b>Minimum Temperature (Min 95 °F)</b>	98	99	100	100	Out of Service	Out of Service	100	Out of Service	Out of Service	99	98	98	Out of Service	100	100	99	Out of Service	99

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.



## 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:** April 1- 30, 2020

### 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.*

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Jim Spears  
Operations Manager

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Ron Coss  
Laboratory, Monitoring &  
Compliance Manager

[rcoss@ocsd.com](mailto:rcoss@ocsd.com)  
(714) 593-7508

Cindy Vellucci

Deirdre Bingman

Rachel Van Exel

  
Peter Park (Jun 15, 2020 1:21 PDT)

Peter Park

  
Lan C. Wiborg (Jun 15, 2020 1:46 PDT)

Lan Wiborg



# 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, 2020

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): 05/19/20, 05/20/20, 05/26/20

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	0.52	<1.3	1.9	55	520	15	18	38	<0.94	840	8,000	47,000	55,000	8.1	25	57
<b>Plant 1 Avg</b>	0.51	<1.3	1.9	51	510	14	18	37	<0.94	810	8,000	46,000	54,000		25	
<b>Plant 2 Max/Min*</b>	0.60	<1.3	2.7	45	470	22	20	32	<0.93	850	5,300	51,000	56,000	8.1	25	63
<b>Plant 2 Avg</b>	0.60	<1.3	2.5	42	420	19	18	29	<0.93	740	5,200	48,000	53,000		26	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	25	25	25	Out of Service	24	25	25	25	25	25	25
<b>Minimum Temperature (Min 95 °F)</b>	98	99	98	Out of Service	99	98	99	99	99	99	99

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
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	26	26	30	26	Out of Service	Out of Service	27	Out of Service	Out of Service	28	26	27	Out of Service	26	25	26	Out of Service	27
<b>Minimum Temperature (Min 95 °F)</b>	99	99	102	100	Out of Service	Out of Service	99	Out of Service	Out of Service	99	99	100	Out of Service	99	100	100	Out of Service	99

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.





## 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, 2020

### 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.*

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Jim Spears  
Operations Manager  
[jspears@ocsd.com](mailto:jspears@ocsd.com)  
(714) 593-7081

Ron Coss  
Laboratory, Monitoring &  
Compliance Manager  
[rcoss@ocsd.com](mailto:rcoss@ocsd.com)  
(714) 593-7508

Cindy Vellucci  
Cindy Vellucci (Jul 10, 2020 09:52 PDT)

Cindy Vellucci

Deirdre Bingman

Rachel Van Exel

Rachel Van Exel

Peter Park  
Peter Park (Jul 13, 2020 18:49 PDT)

Peter Park

Lan C. Wiborg  
Lan C. Wiborg (Jul 14, 2020 07:11 PDT)

Lan Wiborg





## 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: June 1- 30, 2020

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): 06/02/20, 06/09/20

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	0.49	<1.3	1.9	59	530	15	20	42	<0.95	840	8,300	43,000	51,000	8.0	24	54
<b>Plant 1 Avg</b>	0.48	<1.3	1.7	55	490	14	18	36	<0.95	770	8,000	42,000	50,000		25	
<b>Plant 2 Max/Min*</b>	0.46	<1.3	2.9	63	490	23	22	36	<0.92	850	5,300	44,000	49,000	8.1	25	67
<b>Plant 2 Avg</b>	0.41	<1.3	2.7	57	460	22	21	33	<0.92	790	5,000	43,000	48,000		27	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	24	25	25	Out of Service	24	24	25	25	25	24	24
<b>Minimum Temperature (Min 95 °F)</b>	98	98	98	Out of Service	98	98	98	98	98	98	98

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
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	26	25	Out of Service	25	Out of Service	22	21	Out of Service	Out of Service	29	26	21	Out of Service	25	25	25	Out of Service	21
<b>Minimum Temperature (Min 95 °F)</b>	99	100	Out of Service	100	Out of Service	101	100	Out of Service	Out of Service	100	99	99	Out of Service	99	100	102	Out of Service	100

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.



# 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: June 1- 30, 2020

## 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.*

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 <small>Cindy Vellucci (Aug 01, 2020 12:54 PDT)</small>			 <small>Reza Sobhani (Aug 11, 2020 10:26 PDT)</small>	 <small>Lan C. Wiborg (Aug 11, 2020 11:33 PDT)</small>
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Cindy Vellucci

Deirdre Bingman

Rachel Van Exel

Reza Sobhani

Lan Wiborg



## 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: July 1- 31, 2020

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): 07/21/2020, 07/28/2020

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	0.54	<1.3	1.7	51	540	15	20	37	<0.95	820	8,400	47,000	55,000	8.2	25	64
<b>Plant 1 Avg</b>	0.49	<1.3	1.6	51	540	15	20	35	<0.95	790	8,200	46,000	54,000		25	
<b>Plant 2 Max/Min*</b>	0.49	<1.2	2.4	66	540	18	21	33	<0.87	770	4,700	46,000	51,000	8.2	27	71
<b>Plant 2 Avg</b>	0.47	<1.2	2.4	65	520	18	20	32	<0.87	770	4,700	45,000	50,000		28	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	25	26	26	Out of Service	24	25	25	25	26	25	25
<b>Minimum Temperature (Min 95 °F)</b>	97	98	98	Out of Service	98	98	98	98	98	97	98

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
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	26	28	Out of Service	29	Out of Service	22	22	Out of Service	Out of Service	28	28	22	Out of Service	28	28	28	Out of Service	23
<b>Minimum Temperature (Min 95 °F)</b>	97	100	Out of Service	97	Out of Service	101	100	Out of Service	Out of Service	100	100	99	Out of Service	99	100	100	Out of Service	101

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.



# 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: July 1- 31, 2020

## 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.*

Jim Spears  
Operations Manager [jspears@ocsd.com](mailto:jspears@ocsd.com)  
(714) 593-7081

Ron Coss  
Laboratory, Monitoring & Compliance Manager [rcoss@ocsd.com](mailto:rcoss@ocsd.com)  
(714) 593-7508

[Cindy Vellucci](#)  
Cindy Vellucci (Sep 17, 2020 13:17 PDT)

Cindy Vellucci

[Deirdre Bingman](#)  
Deirdre Bingman (Sep 17, 2020 13:53 PDT)

Deirdre Bingman

[Rachel Van Exel](#)

Rachel Van Exel

[Reza Sobhani](#)  
Reza Sobhani (Sep 23, 2020 12:46 PDT)

Reza Sobhani

[Lan C. Wiborg](#)  
Lan C. Wiborg (Sep 23, 2020 13:57 PDT)

Lan Wiborg



## 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: August 1- 31, 2020

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): 08/18/20, 08/25/20

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	1.1	<1.4	1.7	50	570	13	21	38	<1.0	830	9,400	42,000	51,000	7.9	23	50
<b>Plant 1 Avg</b>	0.99	<1.4	1.6	50	470	13	21	38	<1.0	810	8,900	41,000	49,000		24	
<b>Plant 2 Max/Min*</b>	0.62	<1.2	2.3	66	500	17	21	29	<0.87	740	6,800	37,000	43,000	7.9	27	72
<b>Plant 2 Avg</b>	0.52	<1.2	2.3	64	490	17	21	28	<0.87	740	6,600	37,000	43,000		27	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	22	23	22	Out of Service	21	22	22	22	22	22	22
<b>Minimum Temperature (Min 95 °F)</b>	98	98	98	Out of Service	98	98	98	98	98	98	98

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	30	32	Out of Service	32	Out of Service	25	25	32	32	25	Out of Service	32	32	32	Out of Service	25
<b>Minimum Temperature (Min 95 °F)</b>	97	99	Out of Service	99	Out of Service	100	97	100	100	99	Out of Service	100	100	100	Out of Service	100

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.





## 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: August 1- 31, 2020

### 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.*

Jim Spears

Jim Spears (Dec 16, 2020 10:11 PST)

Jim Spears

Operations Manager

[jspears@ocsd.com](mailto:jspears@ocsd.com)

(714) 593-7081

Ron Coss

Laboratory, Monitoring &  
Compliance Manager

[rcoss@ocsd.com](mailto:rcoss@ocsd.com)

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Cindy Vellucci

Cindy Vellucci (Dec 15, 2020 15:21 PST)

Cindy Vellucci

Deirdre Bingman

Deirdre Bingman (Dec 15, 2020 15:39 PST)

Deirdre Bingman

Rachel Van Exel

Rachel Van Exel

Reza Sobhani

Reza Sobhani (Dec 16, 2020 09:27 PST)

Reza Sobhani

Lan C. Wiborg

Lan C. Wiborg (Dec 16, 2020 09:29 PST)

Lan Wiborg



## 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: September 1- 30, 2020

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): 09/15/20, 09/22/20

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	0.66	<1.4	1.6	52	670	3.4	20	35	<1.0	900	10,000	54,000	64,000	7.9	23	62
<b>Plant 1 Avg</b>	0.57	<1.4	1.5	51	660	3.3	20	35	<1.0	880	10,000	50,000	60,000		24	
<b>Plant 2 Max/Min*</b>	0.74	<1.2	2.1	56	510	6.7	21	34	<0.89	780	8,400	45,000	53,000	8.0	26	69
<b>Plant 2 Avg</b>	0.68	<1.2	2.1	55	500	6.5	20	33	<0.89	770	7,500	42,000	50,000		27	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	23	24	24	Out of Service	22	23	23	24	23	23	23
<b>Minimum Temperature (Min 95 °F)</b>	97	98	98	Out of Service	97	98	97	98	97	97	98

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	28	28	Out of Service	29	Out of Service	24	24	28	29	25	Out of Service	28	28	28	Out of Service	26
<b>Minimum Temperature (Min 95 °F)</b>	99	100	Out of Service	103	Out of Service	100	101	100	100	99	Out of Service	100	101	99	Out of Service	99

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.



# 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: September 1- 30, 2020

## 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.*

Jim Spears (Jan 11, 2021 09:02 PST)

Jim Spears  
Operations Manager

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(714) 593-7081

Ron Coss  
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Compliance Manager

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Cindy Vellucci (Dec 15, 2020 16:04 PST)

Cindy Vellucci

Deirdre Bingman (Dec 16, 2020 07:07 PST)

Deirdre Bingman

Rachel Van Exel

Reza Sobhani (Dec 17, 2020 15:35 PST)

Reza Sobhani

Lan C. Wiborg (Jan 8, 2021 13:42 PST)

Lan Wiborg



## 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: October 1-31, 2020

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): 10/20/20, 10/27/20

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	0.78	8.9 DNQ	1.2	43	560	2.9	18	39	6.8	770	9,600	52,000	62,000	7.9	24	64
<b>Plant 1 Avg</b>	0.60	8.8 DNQ	1.2	43	550	2.2 DNQ	18	36	6.3	750	9,400	49,000	59,000		25	
<b>Plant 2 Max/Min*</b>	0.53	14	2.1	47	530	6.2	20	27	6.9	720	6,700	50,000	56,000	7.8	27	65
<b>Plant 2 Avg</b>	0.47	14	2.0	47	500	6.2	20	26	6.9	710	6,600	47,000	54,000		27	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	27	27	27	Out of Service	26	27	27	27	27	27	27
<b>Minimum Temperature (Min 95 °F)</b>	97	97	98	Out of Service	98	97	98	97	98	98	98

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	30	30	Out of Service	30	Out of Service	29	29	30	30	29	Out of Service	29	29	29	Out of Service	30
<b>Minimum Temperature (Min 95 °F)</b>	99	100	Out of Service	102	Out of Service	100	99	100	100	100	Out of Service	100	101	100	Out of Service	100

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.



## 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: October 1-31, 2020

### 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.*

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Jim Spears (Jan 5, 2021 11:39 PST)

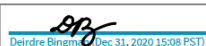
Jim Spears  
Operations Manager      [jspears@ocsd.com](mailto:jspears@ocsd.com)  
(714) 593-7081



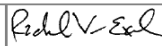
Ron Coss  
Laboratory, Monitoring &  
Compliance Manager      [rcoss@ocsd.com](mailto:rcoss@ocsd.com)  
(714) 593-7508

  
Cindy Vellucci (Dec 31, 2020 14:14 PST)

Cindy Vellucci

  
Deirdre Bingman (Dec 31, 2020 15:08 PST)

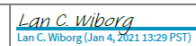
Deirdre Bingman



Rachel Van Exel

  
Reza Sobhani (Jan 4, 2021 13:08 PST)

Reza Sobhani

  
Lan C. Wiborg (Jan 4, 2021 13:29 PST)

Lan Wiborg





## 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: November 1-30, 2020

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): 11/03/20, 11/17/20

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	0.69	11	1.2	44	540	2.7	18	34	13	840	8,700	51,000	58,000	7.8	23	66
<b>Plant 1 Avg</b>	0.66	10.5 DNQ	1.1	44	530	2.5	18	34	9.7	800	7,800	49,000	57,000		24	
<b>Plant 2 Max/Min*</b>	0.84	20	2.3	51	520	5.9	22	31	7.7	850	6,500	51,000	57,000	7.9	22	69
<b>Plant 2 Avg</b>	0.60	19	2.2	47	490	5.4	21	30	6.2	770	6,300	45,000	51,000		26	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	27	28	28	Out of Service	27	28	27	28	27	27	27
<b>Minimum Temperature (Min 95 °F)</b>	97	97	98	Out of Service	98	98	98	98	98	97	98

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	30	31	Out of Service	31	Out of Service	30	30	31	31	30	Out of Service	30	30	30	Out of Service	30
<b>Minimum Temperature (Min 95 °F)</b>	97	97	Out of Service	98	Out of Service	100	98	100	98	99	Out of Service	98	100	100	Out of Service	100

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.



# 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: November 1-30, 2020

## 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.*

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Jim Spears (Jan 6, 2021 08:04 PST)

Jim Spears  
Operations Manager

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Ron Coss  
Laboratory, Monitoring &  
Compliance Manager

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Cindy Vellucci (Jan 5, 2021 11:25 PST)

Cindy Vellucci

Deirdre Bingman (Jan 5, 2021 13:06 PST)

Deirdre Bingman

Rachel Van Exel (Jan 5, 2021 14:55 PST)

Rachel Van Exel

Reza Sobhani (Jan 5, 2021 14:55 PST)

Reza Sobhani

Lan C. Wiborg (Jan 5, 2021 14:56 PST)

Lan Wiborg



## 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:** December 1-31, 2020

This notice and necessary information demonstrate 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):** 12/01/20, 12/08/20

	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)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min*</b>	0.69	12	1.6	48	530	18	18	47	8.5	810	11,000	46,000	57,000	8.0	23	62
<b>Plant 1 Avg</b>	0.62	11 DNQ	1.6	46	530	11	18	44	8.5	810	11,000	44,000	55,000		25	
<b>Plant 2 Max/Min*</b>	0.49	19	2.6	52	490	6.9	22	33	8.4	800	8,600	40,000	49,000	8.0	25	73
<b>Plant 2 Avg</b>	0.44	17	2.5	46	450	5.3	20	30	8.4	730	7,500	40,000	47,000		27	
<b>Table 1 (Max/Min)*</b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	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 (Min 15 days)**</b>	27	27	27	Out of Service	26	27	27	27	27	26	26
<b>Minimum Temperature (Min 95 °F)</b>	97	98	99	Out of Service	99	98	97	98	97	98	97

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
<b>Minimum Mean Cell Residence Time (Min 15 days)**</b>	31	31	Out of Service	32	Out of Service	31	31	31	32	31	Out of Service	31	31	31	Out of Service	31
<b>Minimum Temperature (Min 95 °F)</b>	98	98	Out of Service	98	Out of Service	99	98	100	100	99	Out of Service	98	100	101	Out of Service	100

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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.



## Biosolids Monthly Compliance Report

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

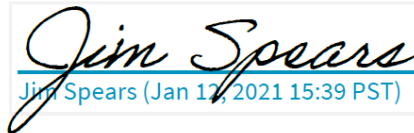
**Monitoring Period:** December 1-31, 2020

### 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.*



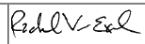
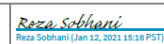
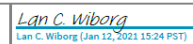
**Arizona Class B:** *I certify, under penalty of law, that the pollutant analyses and the description of pathogen treatment and vector attraction reduction activities have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and 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.*

  
Jim Spears (Jan 12, 2021 15:39 PST)

Jim Spears  
Operations Manager      [jspears@ocsd.com](mailto:jspears@ocsd.com)  
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Ron Coss  
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 <u>Cindy Vellucci (Jan 12, 2021 10:57 PST)</u>	 <u>Deirdre Bingman (Jan 12, 2021 14:01 PST)</u>		 <u>Reza Sobhani (Jan 12, 2021 15:18 PST)</u>	 <u>Lan C. Wiborg (Jan 12, 2021 15:24 PST)</u>
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Cindy Vellucci

Deirdre Bingman

Rachel Van Exel

Reza Sobhani

Lan Wiborg





**SOLIDS MANAGEMENT PROGRAM**

## SOLIDS MANAGEMENT PROGRAM

### 8.1 INTRODUCTION

This section provides an overview of OCSD's Biosolids Program, focusing on the biosolids quality with respect to metals. Biosolids are nutrient-rich, treated organic matter recovered through the treatment of wastewater. These solids are considered a resource because of their nutrient and energy values, and they are recyclable in part because of their low metal content. The pretreatment program is a key element in ensuring the recyclability of OCSD's biosolids by minimizing the discharge of heavy metals and other undesirable constituents into the collection system and ultimately the treated solids, which are used to fertilize farms.

OCSD's annual biosolids compliance report was completed, submitted to regulators, and posted online in February. Visit [OCSD.com/503](http://OCSD.com/503) to access the most recent document that contains Biosolids Program information, regulations, quantities, policies, guiding principles, and how and where biosolids are recycled.

### 8.2 BIOSOLIDS QUALITY

Biosolids quality plays an important role in ensuring the continued recyclability of OCSD's biosolids. OCSD's pretreatment program has been extremely effective in reducing and maintaining levels of pollutants (e.g., OCSD's influent sewage meets drinking water standards for the biosolids monitoring metals). The ceiling concentrations and EQ (exceptional quality) concentrations promulgated by the EPA's biosolids regulations (40 CFR 503) are presented in the figures as a reference. For FY 2019/20, OCSD biosolids met the EQ limits for all the regulated parameters.

**TABLE 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2011-2020**  
(Concentration in mg/kg, dry weight)  
Orange County Sanitation District, Resource Protection Division

Metal	Fiscal Year	Exceptional Quality Limits	Plant 1			Plant 2		
			Min.	Max.	Avg	Min.	Max	Avg.
Arsenic		41						
	2010-11		7.2	9.7	8.4	8.6	12	10
	2011-12		2.3	11	7.4	6.6	66	22
	2012-13		0	7.8	4.7	2.0	10	7.0
	2013-14*		3.5	9.5	5.8	5.4	11	8.4
	2014-15		4.5	11	7.2	7.8	12	9.3
	2015-16*		6.3	12	8.3	6.2	12	9.2
	2016-17*		6.7	12	8.1	5.6	12	8.6
	2017-18*		7.2	16	9.9	7.9	16	11
	2018-19*		7.3	24	16	9.4	24	18
2019-20*			1.3	8.8	5.4	1.3	12	5.5

**TABLE 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2011-2020**  
**(Concentration in mg/kg, dry weight)**  
 Orange County Sanitation District, Resource Protection Division

Metal	Fiscal Year	Exceptional Quality Limits	Plant 1			Plant 2		
			Min.	Max.	Avg.	Min.	Max.	Avg.
Cadmium		39						
	2010-11		1.2	3.8	2.6	1.4	5.0	2.5
	2011-12		0.8	6.0	3.8	1.1	4.4	3.6
	2012-13		2.6	7.8	4.7	1.9	4.4	3.1
	2013-14*		1.6	11	3.9	2.1	6.0	3.5
	2014-15		2.7	7.8	5.1	3.1	5.8	4.0
	2015-16*		1.3	4.7	2.5	2.0	4.5	3.0
	2016-17		2.6	3.1	2.3	2.0	3.8	3.0
	2017-18*		1.7	4.4	3.0	2.5	7.7	5.1
	2018-19*		1.2	3.0	1.6	2.7	8.4	4.2
2019-20		1.3	2.7	1.9	2.2	8.4	3.3	
Metal	Fiscal Year	Exceptional Quality Limits	Plant 1			Plant 2		
			Min.	Max.	Avg.	Min.	Max.	Avg.
Chromium		**						
	2010-11		41	58	47	50	66	59
	2011-12		42	74	52	40	70	56
	2012-13		42	56	49	42	59	49
	2013-14		39	52	45	40	53	46
	2014-15		30	51	40	34	70	46
	2015-16		31	89	46	28	60	46
	2016-17		30	89	49	29	67	46
	2017-18		27	38	34	38	54	44
	2018-19		29	58	39	32	53	45
2019-20		37	51	45	35	49	42	
Metal	Fiscal Year	Exceptional Quality Limits	Plant 1			Plant 2		
			Min.	Max.	Avg.	Min.	Max.	Avg.
Copper		1,500						
	2010-11		520	600	570	500	720	570
	2011-12		430	670	520	380	720	520
	2012-13		480	640	540	500	640	540
	2013-14		460	540	510	470	540	500
	2014-15		320	570	470	320	560	470
	2015-16		380	560	460	340	570	480
	2016-17		400	560	460	340	570	490
	2017-18		320	500	420	380	590	460
	2018-19		355	600	470	335	665	510
2019-20		440	600	530	410	590	490	

**TABLE 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2011-2020  
(Concentration in mg/kg, dry weight)  
Orange County Sanitation District, Resource Protection Division**

Metal	Fiscal Year	Exceptional Quality Limits	Plant 1			Plant 2		
			Min.	Max.	Avg.	Min.	Max.	Avg.
Lead		300						
	2010-11		21	24	23	9.0	30	20
	2011-12		ND	25	9.0	ND	32	13
	2012-13		7.5	19	15	7.5	17	14
	2013-14*		13	18	14	13	17	14
	2014-15*		8.7	15	13	9.0	17	13
	2015-16*		8.3	20	12	8.0	17	13
	2016-17*		7.9	20	11	7.5	17	12
	2017-18*		8.9	19	12	10	16	13
	2018-19		9.9	15	12	10	15	13
2019-20		9.8	14	12	14	24	17	
Mercury		17						
	2010-11		0.8	2.2	1.3	0.8	2.3	1.2
	2011-12		0.8	1.4	1.2	0.8	2.6	1.3
	2012-13		0.7	4.1	1.5	0.8	3.8	1.4
	2013-14		0.8	1.2	1.0	0.7	2.8	1.4
	2014-15		1.0	1.5	1.1	1.0	1.5	1.0
	2015-16		0.6	1.7	0.9	0.6	1.2	1.0
	2016-17		0.5	1.7	0.9	0.7	1.2	0.9
	2017-18		0.7	1.1	0.9	0.3	1.1	0.8
	2018-19		0.6	1.1	0.9	0.6	1.0	0.8
2019-20		0.5	1.2	0.8	0.5	0.8	0.6	
Molybdenum		**						
	2009-10		6.0	16	13	6.0	14	10
	2010-11		12	19	15	4.8	18	14
	2011-12		6.5	18	13	12	20	17
	2012-13		9.8	20	14	12	20	15
	2013-14		12	18	15	14	18	15
	2014-15		9.4	18	15	12	20	16
	2015-16*		11	18	15	11	23	16
	2016-17		12	18	15	11	23	16
	2017-18*		10	16	14	13	18	15
2018-19		13	20	16	15	22	18	
2019-20		14	22	18	14	24	18	

**TABLE 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2011-2020**  
**(Concentration in mg/kg, dry weight)**  
Orange County Sanitation District, Resource Protection Division

Metal	Fiscal Year	Exceptional Quality Limits	Plant 1			Plant 2		
			Min.	Max.	Avg.	Min.	Max.	Avg.
Nickel		420						
	2010-11		28	46	37	14	38	32
	2011-12		15	48	35	20	39	31
	2012-13		34	48	40	23	41	30
	2013-14		36	55	43	28	56	37
	2014-15		26	47	37	26	41	34
	2015-16*		29	45	38	20	41	33
	2016-17		25	45	36	21	41	32
	2017-18		28	37	32	31	39	34
	2018-19		23	44	33	29	44	37
2019-20		27	41	35	26	46	35	
Selenium		100						
	2010-11		2.8	26	11	3.7	26	9.8
	2011-12		ND	26	9.0	ND	19	9.0
	2012-13		0	20	9.0	0	20	8.0
	2013-14*		3.5	13	7.9	4.2	13	8.3
	2014-15*		4.1	13	7.1	4.5	15	7.3
	2015-16*		4.4	11	8.1	3.7	10	7.6
	2016-17*		4.1	10	8.4	4.8	10	8.0
	2017-18*		3.0	7.8	4.9	2.7	8.0	4.9
	2018-19*		2.5	48	6.6	2.3	2.9	2.7
2019-20*		0.9	12	3.7	0.9	12	3.5	
Silver		**						
	2010-11		10	17	13	5.2	12	9.6
	2011-12		7.0	14	10	4.0	12	8.5
	2012-13		6.2	14	8.6	6.4	13	8.6
	2013-14*		2.9	7.6	5.3	3.6	9.1	6.3
	2014-15*		3.3	7.8	5.8	3.4	8.6	6.5
	2015-16*		2.4	7.7	5.6	2.5	7.9	5.6
	2016-17*		2.7	5.6	4.4	2.5	6.8	4.9
	2017-18*		3.2	5.1	3.9	3.7	5.0	4.2
	2018-19*		2.9	5.1	4.0	3.5	5.8	4.3
2019-20*		3.0	5.0	4.0	2.7	5.8	4.0	



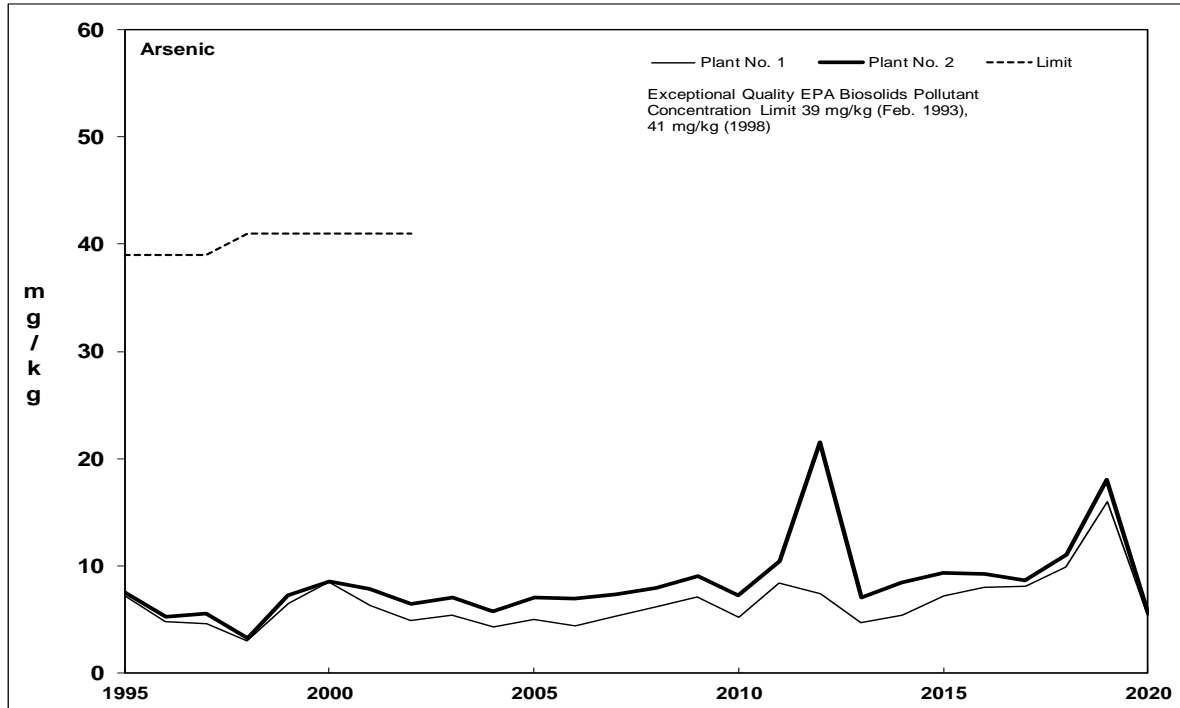
**TABLE 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2011-2020  
(Concentration in mg/kg, dry weight)  
Orange County Sanitation District, Resource Protection Division**

Metal	Fiscal Year	Exceptional Quality Limits	Plant 1			Plant 2		
			Min.	Max.	Avg.	Min.	Max.	Avg.
Zinc		2,800						
	2010-11		630	740	700	700	830	740
	2011-12		560	880	710	560	910	750
	2012-13		640	860	720	680	880	770
	2013-14		590	730	670	620	750	700
	2014-15		420	720	620	470	740	670
	2015-16		500	770	620	520	890	730
	2016-17		550	770	610	520	890	740
	2017-18		470	680	600	590	910	720
	2018-19		520	810	600	500	790	720
	2019-20		640	810	760	590	890	720

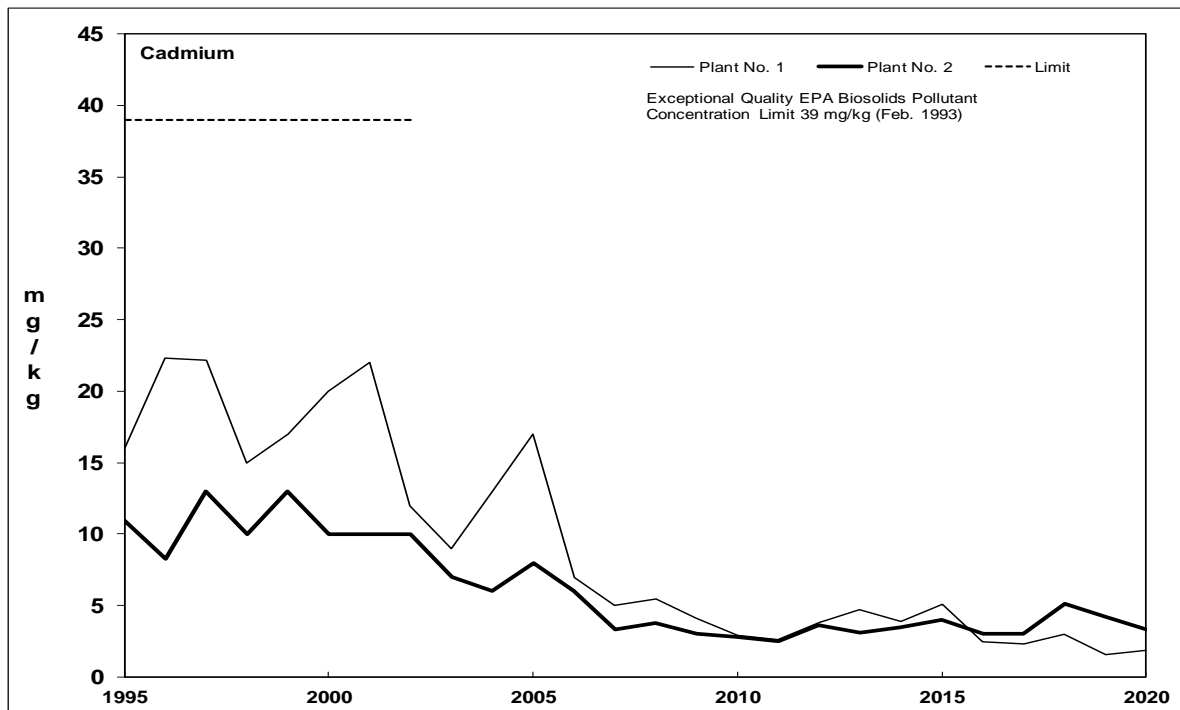
ND Non-detect

\* Calculations included data below the reporting limit, but above the method detection limit, and were therefore flagged as “detected not quantified” or the method detection limit was substituted for non-detect values.

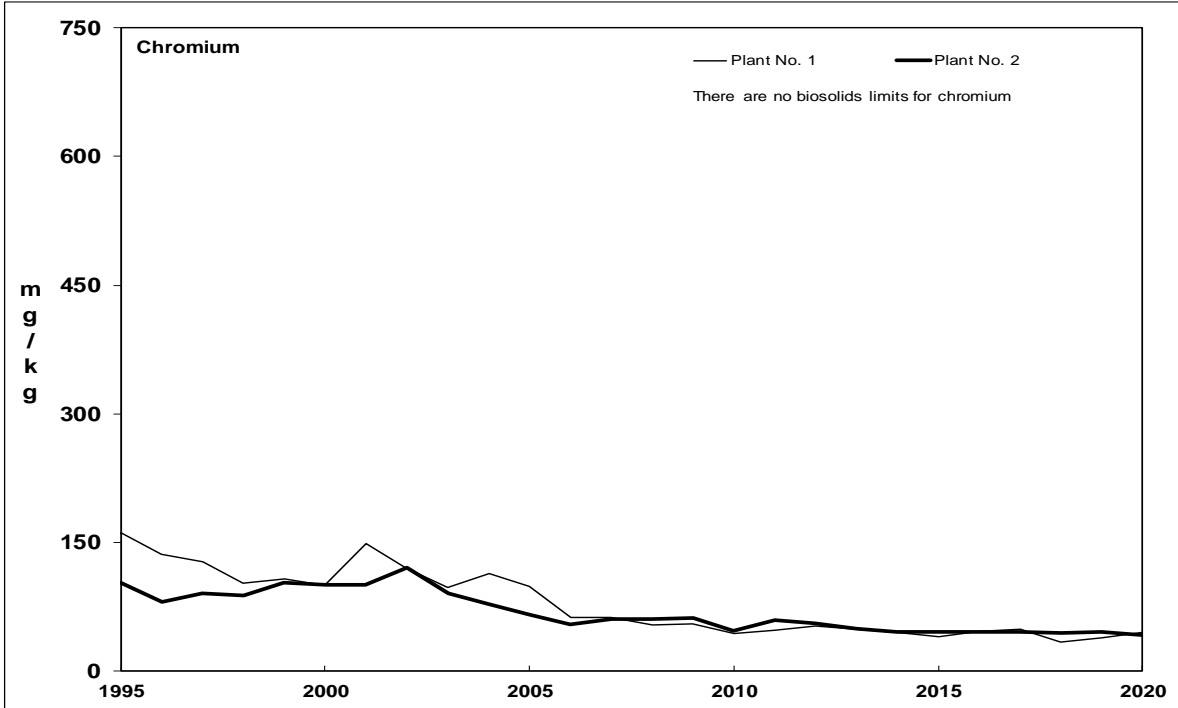
\*\* EPA’s extensive health risk analysis determined that no limits were needed for these metals (EPA 40CFR 503).



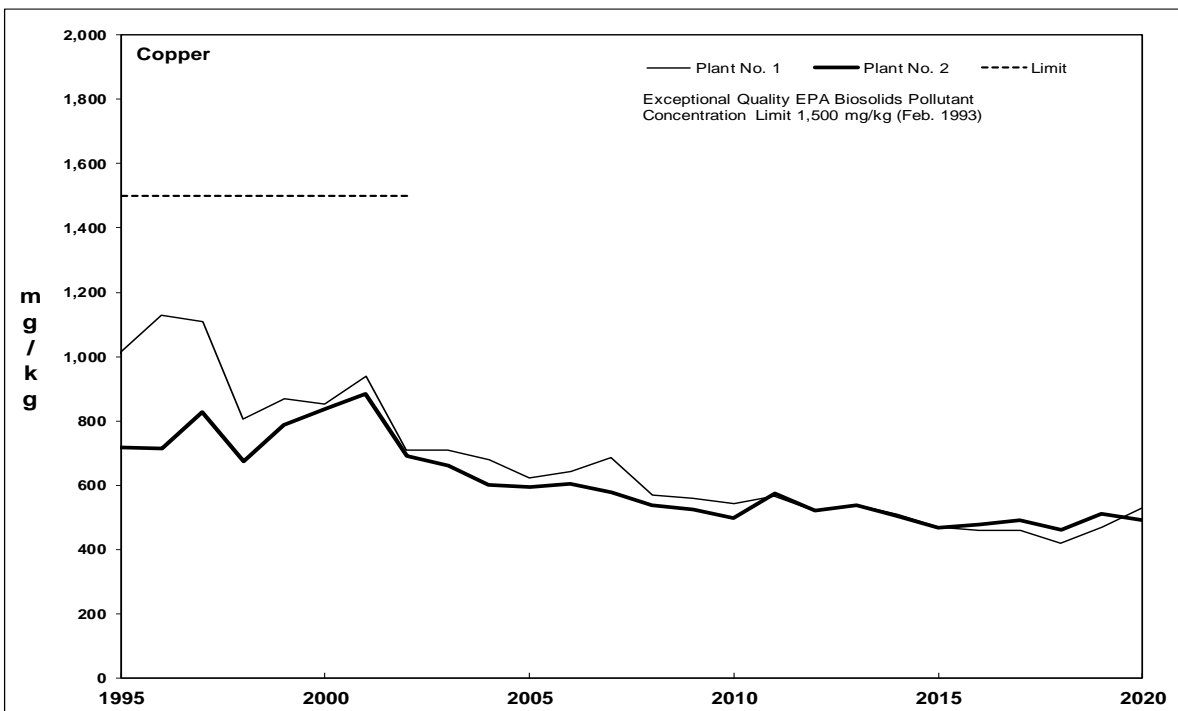
**Figure 8-1 Trends in Concentrations of Arsenic in Biosolids, Fiscal Years 1995-2020**  
Orange County Sanitation District, Resource Protection Division



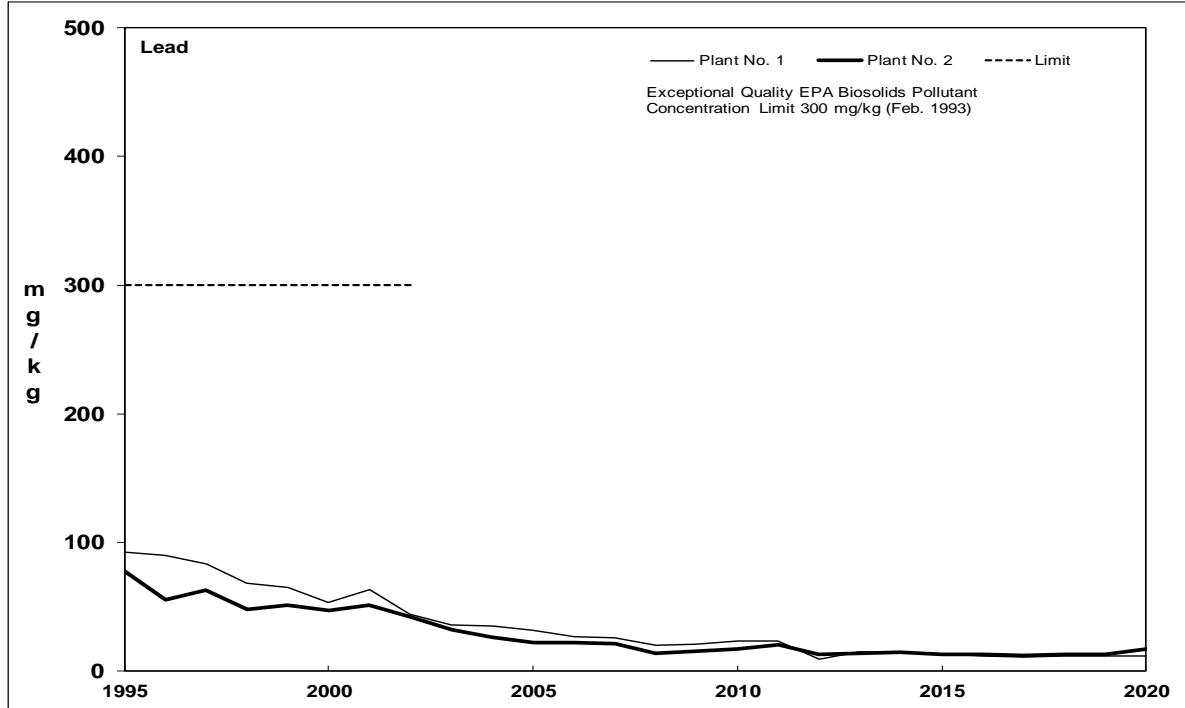
**Figure 8-2 Trends in Concentrations of Cadmium in Biosolids, Fiscal Years 1995-2020**  
Orange County Sanitation District, Resource Protection Division



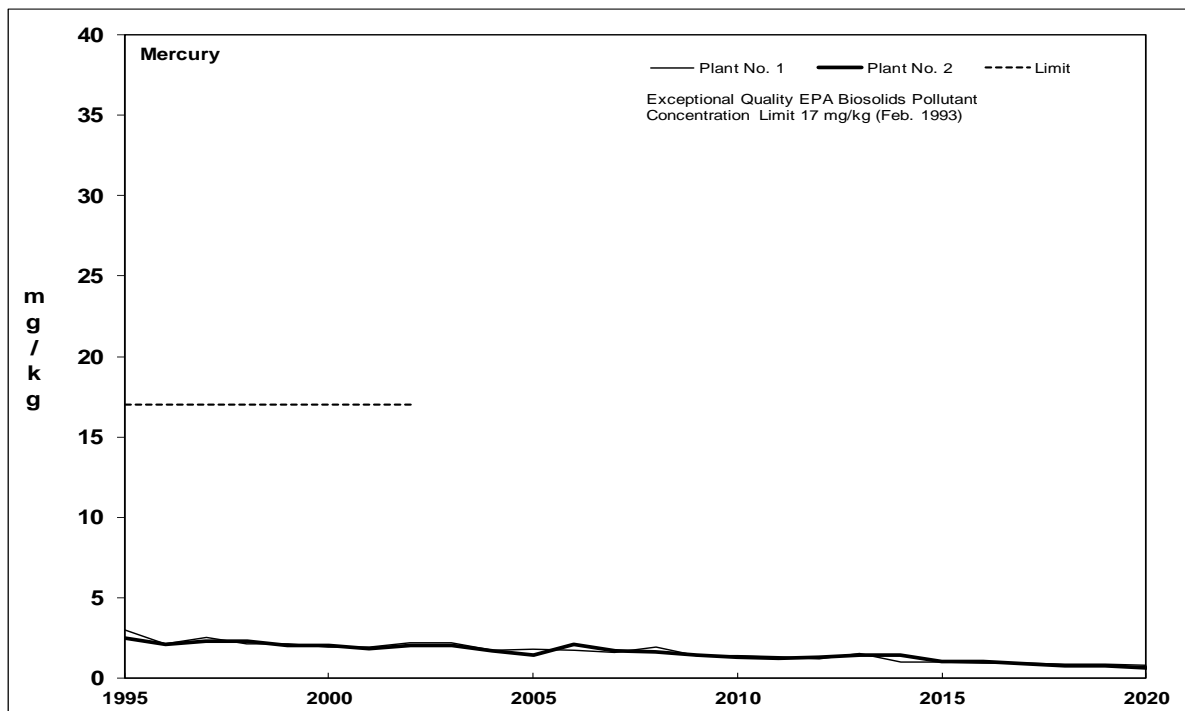
**Figure 8-3 Trends in Concentrations of Chromium in Biosolids, Fiscal Years 1995-2020**  
Orange County Sanitation District, Resource Protection Division



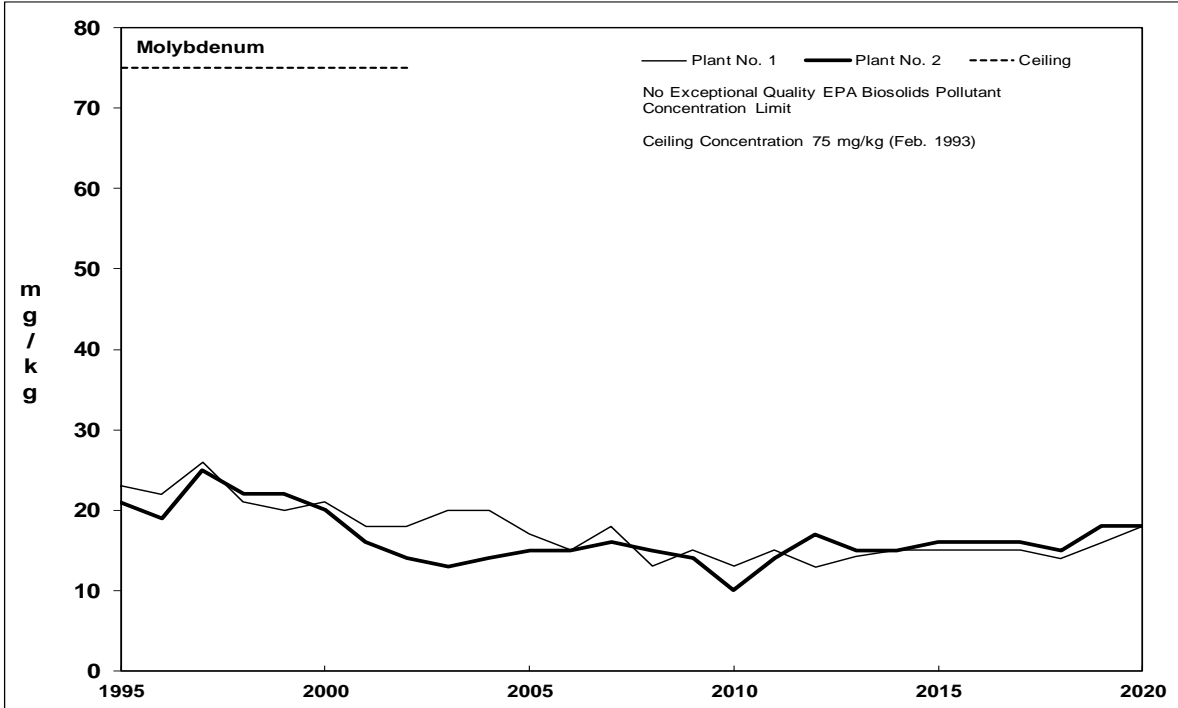
**Figure 8-4 Trends in Concentrations of Copper in Biosolids, Fiscal Years 1995-2020**  
Orange County Sanitation District, Resource Protection Division



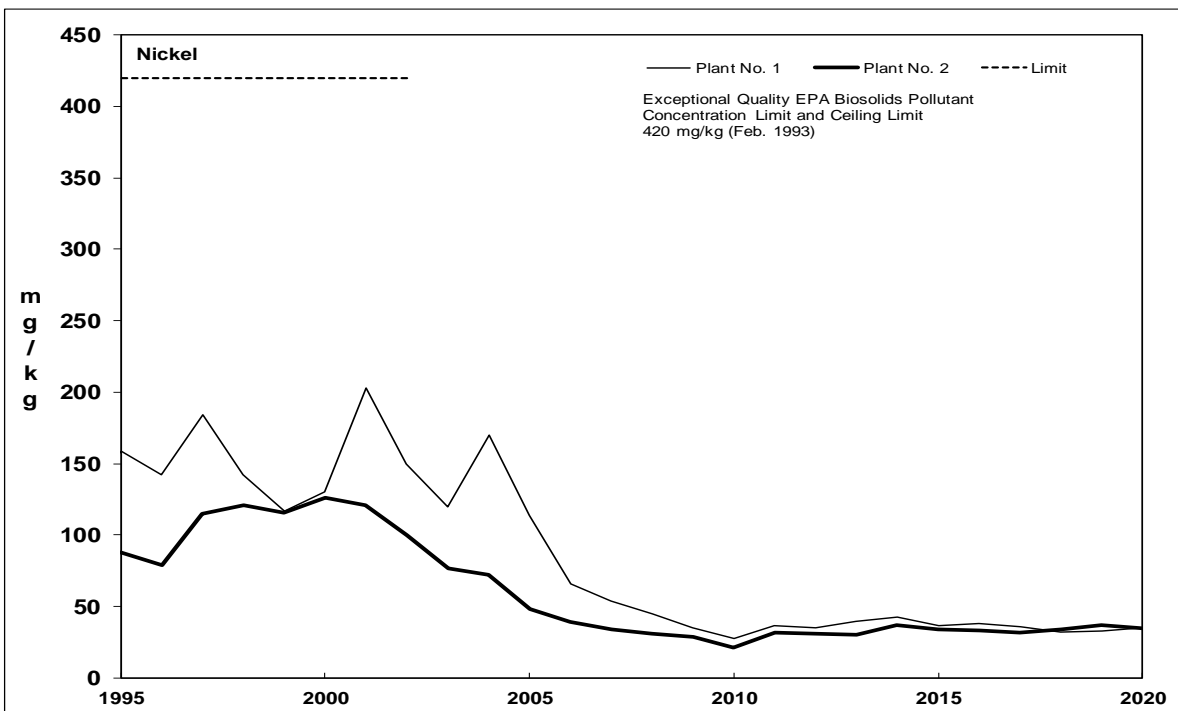
**Figure 8-5 Trends in Concentrations of Lead in Biosolids, Fiscal Years 1995-2020**  
Orange County Sanitation District, Resource Protection Division



**Figure 8-6 Trends in Concentrations of Mercury in Biosolids, Fiscal Years 1995-2020**  
Orange County Sanitation District, Resource Protection Division

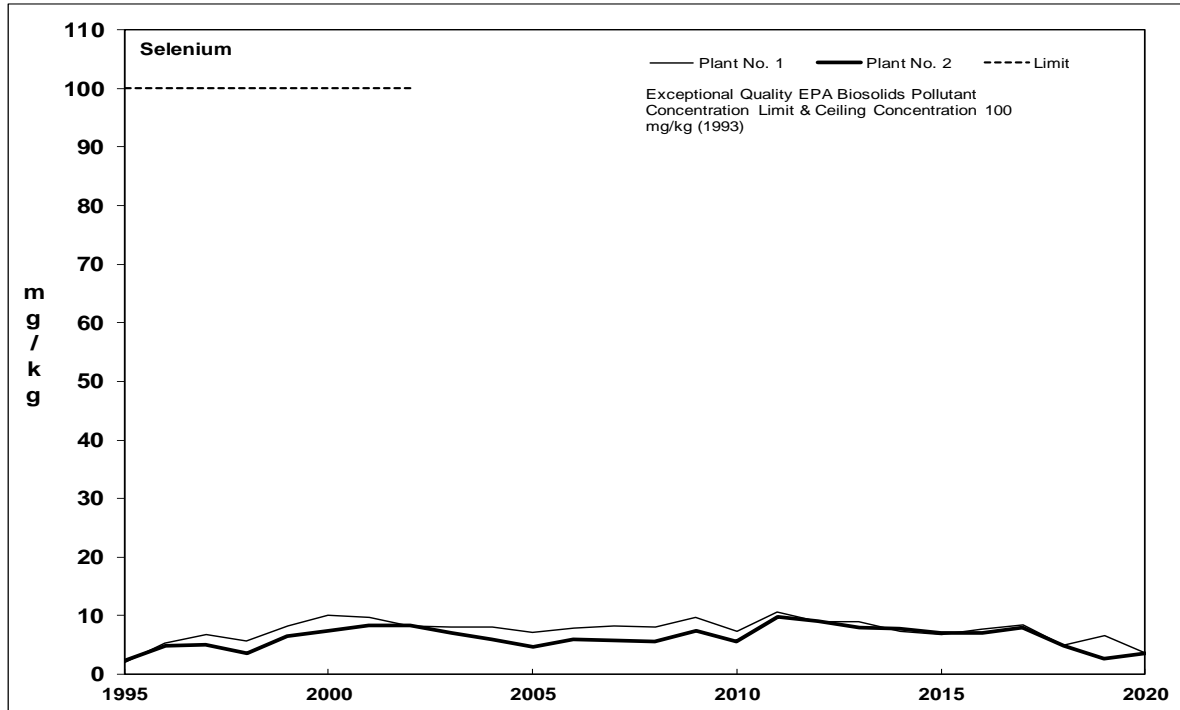


**Figure 8-7 Trends in Concentrations of Molybdenum in Biosolids, Fiscal Years 1995-2020**  
Orange County Sanitation District, Resource Protection Division

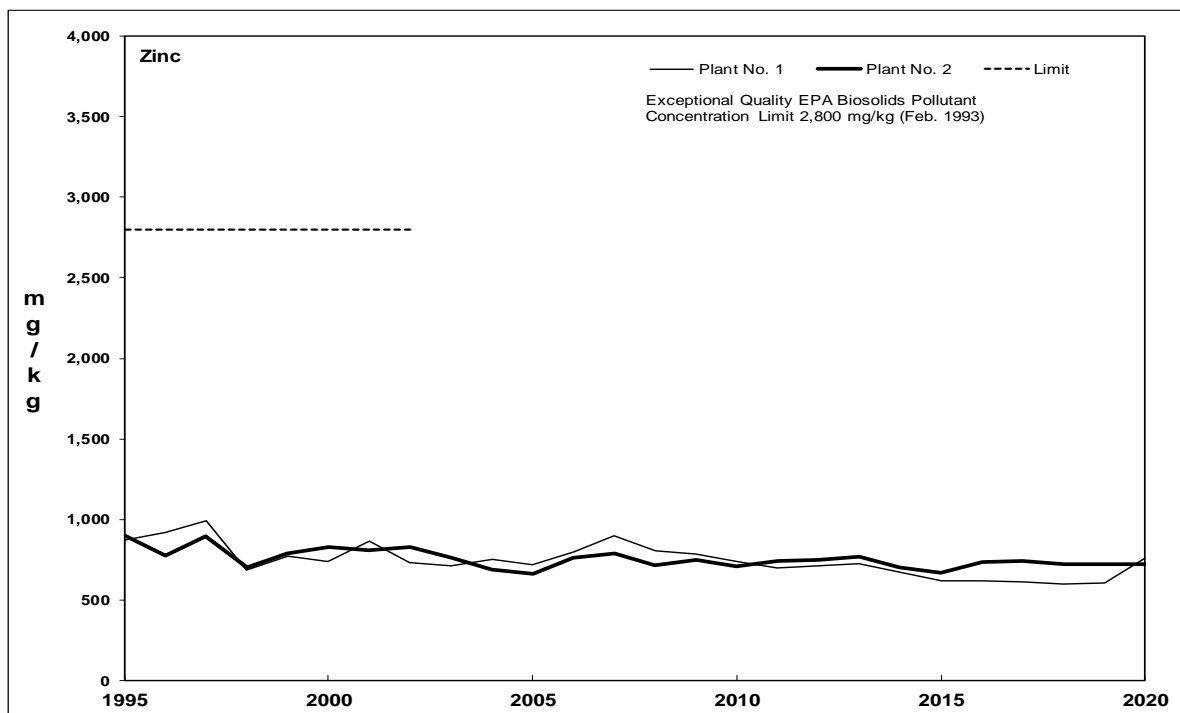


**Figure 8-8 Trends in Concentrations of Nickel in Biosolids, Fiscal Years, 1995-2020**  
Orange County Sanitation District, Resource Protection Division





**Figure 8-9 Trends in Concentrations of Selenium in Biosolids, Fiscal Years 1995-2020**  
Orange County Sanitation District, Resource Protection Division



**Figure 8-10 Trends in Concentrations of Zinc in Biosolids, Fiscal Years 1995-2020**  
Orange County Sanitation District, Resource Protection Division

**Summary of Priority Pollutants and  
Trace Constituents Analysis in Biosolids**

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
<b>General Chemistry</b>								
Ammonia-N	SM 4500 NH3 G	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	5000	160	200	
				01/28/2020	8100	420	2100	
				02/18/2020	9300	400	2000	
				02/25/2020	8000	190	970	
				03/17/2020	8000	420	2100	
				03/24/2020	7900	410	2000	
				04/21/2020	9300	490	2500	
				04/28/2020	7900	400	2000	
				05/20/2020	8000	400	2000	
				05/26/2020	7900	390	2000	
				06/02/2020	7600	380	1900	
				06/09/2020	8300	410	2000	
				07/21/2020	7900	390	2000	
				07/28/2020	8400	400	2000	
				08/18/2020	8300	350	1800	
				08/25/2020	9400	420	2100	
				09/15/2020	10000	440	2200	
				09/22/2020	10000	420	2100	
				10/20/2020	9600	410	2100	
				10/27/2020	9100	400	2000	
				11/03/2020	6900	430	2100	
	11/17/2020	8700	410	2100				
	12/01/2020	10000	430	2200				
	12/08/2020	11000	390	1900				
		Annual Mean			8500			
		Annual Max			11000			
		SM 4500 NH3 G	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	3200	140	180
	01/28/2020				6800	400	2000	
	02/18/2020				8800	350	1800	
	02/25/2020				6700	180	910	
	03/17/2020				5500	380	1900	
	03/24/2020				5000	360	1800	
	04/21/2020				7300	510	2600	
04/28/2020	5300				380	1900		
05/19/2020	5300				400	2000		
05/26/2020	5000				370	1800		
06/02/2020	4600				340	1700		
06/09/2020	5300				390	1900		
07/21/2020	4600				350	1800		
07/28/2020	4700				370	1800		
08/18/2020	6800				300	1500		
08/25/2020	6400				360	1800		
09/15/2020	6600				350	1700		
09/22/2020	8400				370	1900		
10/20/2020	6700				360	1800		
10/27/2020	6400				370	1800		
11/03/2020	6000				460	2300		
11/17/2020	6500	350	1700					
12/01/2020	6300	350	1700					
12/08/2020	8600	390	2000					
	Annual Mean			6100				
	Annual Max			8800				
Fluoride	EPA 300.0	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	76	1.6	16	
				07/21/2020	18 DNQ	14	20	
				Annual Mean	47 DNQ			
				Annual Max	76			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 300.0	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	160	1.5	15
				07/21/2020	29	13	18
				Annual Mean	94		
				Annual Max	160		
Hexavalent Chromium	EPA 7196A	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	ND	100	210
				04/21/2020	ND	120	250
				07/21/2020	ND	10	20
				10/20/2020	ND	52	100
				Annual Mean	<120		
	Annual Max	<120					
	EPA 7196A	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	ND	92	180
				04/21/2020	ND	26	52
				07/21/2020	ND	9.0	18
				10/20/2020	ND	46	92
Annual Mean				<92			
Annual Max	<92						
Kjeldahl Nitrogen	EPA 351.2	mg/kg dry weight	Plant 1 Dewatering Cake	01/28/2020	52000	5900	7800
				02/18/2020	54000	4700	6200
				02/25/2020	51000	6200	8300
				03/17/2020	51000	5500	7300
				03/24/2020	55000	5000	6600
				04/21/2020	69000	6200	8200
				04/28/2020	49000	7300	9700
				05/20/2020	53000	5000	6700
				05/26/2020	55000	4900	6600
				06/02/2020	51000	5400	7300
				06/09/2020	49000	5000	6600
				07/21/2020	55000	7400	9900
				07/28/2020	53000	6300	8400
				08/18/2020	47000	6000	8000
				08/25/2020	51000	4600	6200
				09/15/2020	56000	1500	4200
				09/22/2020	64000	1500	4200
				10/20/2020	62000	1300	3800
				10/27/2020	55000	1400	3900
				11/03/2020	58000	1500	4300
11/17/2020	56000	5300	7100				
12/01/2020	52000	5200	6900				
12/08/2020	57000	5400	7200				
	Annual Mean	55000					
	Annual Max	69000					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 351.2	mg/kg dry weight	Plant 2 Dewatering Cake	01/28/2020	52000	4800	6400
				02/18/2020	53000	4600	6200
				02/25/2020	51000	5300	7000
				03/17/2020	54000	4800	6300
				03/24/2020	52000	5300	7000
				04/21/2020	73000	6700	8900
				04/28/2020	53000	6500	8700
				05/19/2020	56000	5400	7200
				05/26/2020	49000	5000	6700
				06/02/2020	46000	5900	7800
				06/09/2020	49000	4800	6400
				07/21/2020	51000	4500	6000
				07/28/2020	49000	4700	6200
				08/18/2020	43000	5700	7600
				08/25/2020	43000	5200	6900
				09/15/2020	46000	1200	3500
				09/22/2020	53000	1300	3600
				10/20/2020	51000	1300	3600
				10/27/2020	56000	1200	3400
				11/03/2020	57000	1500	4400
				11/17/2020	45000	4300	5800
				12/01/2020	45000	4700	6300
				12/08/2020	49000	5000	6700
	Annual Mean			51000			
	Annual Max			73000			
Nitrate-N	EPA 300.0	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	ND	2.1	4.1
				01/28/2020	ND	3.4	4.7
				02/18/2020	ND	3.2	4.5
				02/25/2020	ND	3.1	4.3
				03/17/2020	ND	3.4	4.6
				03/24/2020	ND	3.3	4.5
				04/21/2020	ND	4.0	5.5
				04/28/2020	ND	3.2	4.4
				05/20/2020	ND	3.3	4.5
				05/26/2020	ND	3.2	4.4
				06/02/2020	ND	3.1	4.2
				06/09/2020	ND	3.3	4.5
				07/21/2020	ND	3.2	4.4
				07/28/2020	ND	3.2	4.4
				08/18/2020	ND	3.4	4.7
				08/25/2020	ND	3.4	4.7
				09/15/2020	ND	3.6	4.9
				09/22/2020	ND	3.4	4.7
				10/20/2020	ND	3.3	4.5
				10/27/2020	ND	3.3	4.5
				11/03/2020	ND	3.4	4.7
				11/17/2020	ND	3.3	4.5
				12/01/2020	ND	3.5	4.8
12/08/2020	ND	3.1	4.3				
	Annual Mean			<4.0			
	Annual Max			<4.0			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 300.0	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	ND	1.9	3.6
				01/28/2020	ND	3.2	4.4
				02/18/2020	ND	2.9	3.9
				02/25/2020	ND	3.0	4.1
				03/17/2020	ND	3.1	4.3
				03/24/2020	14	2.9	4.0
				04/21/2020	ND	4.1	5.7
				04/28/2020	ND	3.0	4.2
				05/19/2020	ND	3.2	4.4
				05/26/2020	ND	3.0	4.1
				06/02/2020	3.5 DNQ	2.8	3.9
				06/09/2020	ND	3.2	4.4
				07/21/2020	ND	2.9	3.9
				07/28/2020	ND	3.0	4.1
				08/18/2020	ND	2.9	4.0
				08/25/2020	ND	2.9	4.0
				09/15/2020	ND	2.9	3.9
				09/22/2020	ND	3.0	4.2
				10/20/2020	ND	3.0	4.1
				10/27/2020	ND	3.0	4.1
				11/03/2020	ND	3.7	5.1
				11/17/2020	ND	2.8	3.8
				12/01/2020	ND	2.8	3.9
12/08/2020	ND	3.2	4.4				
			Annual Mean	3.5 DNQ			
			Annual Max	14			
Nitrite-N	EPA 300.0	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	ND	1.3	4.1
				01/28/2020	ND	4.7	6.4
				02/18/2020	ND	4.5	6.1
				02/25/2020	ND	4.3	5.9
				03/17/2020	ND	4.6	6.3
				03/24/2020	ND	4.5	6.2
				04/21/2020	ND	5.5	7.4
				04/28/2020	ND	4.4	6.0
				05/20/2020	ND	4.5	6.1
				05/26/2020	ND	4.4	6.0
				06/02/2020	11	4.2	5.7
				06/09/2020	ND	4.5	6.2
				07/21/2020	ND	4.4	6.0
				07/28/2020	ND	4.4	6.0
				08/18/2020	ND	4.7	6.4
				08/25/2020	ND	4.7	6.4
				09/15/2020	ND	4.9	6.7
				09/22/2020	ND	4.7	6.4
				10/20/2020	ND	4.5	6.1
				10/27/2020	17	4.5	6.1
				11/03/2020	ND	4.7	6.4
				11/17/2020	ND	4.5	6.2
				12/01/2020	ND	4.8	6.5
12/08/2020	ND	4.3	5.8				
			Annual Mean	5.2 DNQ			
			Annual Max	17			



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 300.0	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	ND	1.2	3.6
				01/28/2020	ND	4.4	6.0
				02/18/2020	ND	3.9	5.4
				02/25/2020	ND	4.1	5.5
				03/17/2020	ND	4.3	5.8
				03/24/2020	ND	4.0	5.4
				04/21/2020	ND	5.7	7.8
				04/28/2020	ND	4.2	5.7
				05/19/2020	ND	4.4	6.0
				05/26/2020	ND	4.1	5.5
				06/02/2020	ND	3.9	5.3
				06/09/2020	ND	4.4	6.0
				07/21/2020	ND	3.9	5.4
				07/28/2020	ND	4.1	5.6
				08/18/2020	ND	4.0	5.4
				08/25/2020	ND	4.0	5.5
				09/15/2020	ND	3.9	5.4
				09/22/2020	ND	4.2	5.7
				10/20/2020	ND	4.1	5.5
				10/27/2020	ND	4.1	5.6
				11/03/2020	ND	5.1	6.9
				11/17/2020	ND	3.8	5.2
				12/01/2020	ND	3.9	5.3
12/08/2020	ND	4.4	6.0				
				Annual Mean	<5.7		
				Annual Max	<5.7		
Organic Lead	HML 939-M	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	ND	0.028	0.041
				04/21/2020	ND	0.034	0.049
				07/21/2020	ND	0.027	0.039
				10/20/2020	ND	0.028	0.041
				Annual Mean	<0.034		
	Annual Max	<0.034					
	HML 939-M	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	ND	0.026	0.037
				04/21/2020	ND	0.036	0.052
				07/21/2020	ND	0.025	0.035
				10/20/2020	ND	0.025	0.037
Annual Mean				<0.036			
Annual Max	<0.036						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
Organic Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/28/2020	44000	--	--	
				02/18/2020	45000	--	--	
				02/25/2020	43000	--	--	
				03/17/2020	43000	--	--	
				03/24/2020	47000	--	--	
				04/21/2020	60000	--	--	
				04/28/2020	41000	--	--	
				05/20/2020	45000	--	--	
				05/26/2020	47000	--	--	
				06/02/2020	43000	--	--	
				06/09/2020	41000	--	--	
				07/21/2020	47000	--	--	
				07/28/2020	45000	--	--	
				08/18/2020	39000	--	--	
				08/25/2020	42000	--	--	
				09/15/2020	46000	--	--	
				09/22/2020	54000	--	--	
				10/20/2020	52000	--	--	
				10/27/2020	46000	--	--	
				11/03/2020	51000	--	--	
				11/17/2020	47000	--	--	
				12/01/2020	42000	--	--	
				12/08/2020	46000	--	--	
				Annual Mean	46000			
	Annual Max	60000						
		CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/28/2020	45000	--	--
					02/18/2020	44000	--	--
					02/25/2020	44000	--	--
					03/17/2020	49000	--	--
					03/24/2020	47000	--	--
					04/21/2020	66000	--	--
					04/28/2020	48000	--	--
					05/19/2020	51000	--	--
					05/26/2020	44000	--	--
	06/02/2020				41000	--	--	
	06/09/2020				44000	--	--	
	07/21/2020				46000	--	--	
	07/28/2020				44000	--	--	
	08/18/2020				36000	--	--	
	08/25/2020				37000	--	--	
	09/15/2020				39000	--	--	
	09/22/2020				45000	--	--	
	10/20/2020				44000	--	--	
	10/27/2020	50000	--	--				
	11/03/2020	51000	--	--				
	11/17/2020	39000	--	--				
	12/01/2020	39000	--	--				
	12/08/2020	40000	--	--				
	Annual Mean	45000						
	Annual Max	66000						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
pH	EPA 9045C	pH units	Plant 1 Dewatering Cake	01/21/2020	8.1	0.10	0.1	
				01/28/2020	8.1	0.10	0.1	
				02/18/2020	8.2	0.10	0.1	
				02/25/2020	7.9	0.10	0.1	
				03/17/2020	8.0	0.10	0.1	
				03/24/2020	7.9	0.10	0.1	
				04/21/2020	8.2	0.10	0.1	
				04/28/2020	8.2	0.10	0.1	
				05/20/2020	8.1	0.10	0.1	
				05/26/2020	8.1	0.10	0.1	
				06/02/2020	8.2	0.10	0.1	
				06/09/2020	8.0	0.10	0.1	
				07/21/2020	8.2	0.10	0.1	
				07/28/2020	8.2	0.10	0.1	
				08/18/2020	8.1	0.10	0.1	
				08/25/2020	7.9	0.10	0.1	
				09/15/2020	7.9	0.10	0.1	
				09/22/2020	8.2	0.10	0.1	
				10/20/2020	7.9	0.10	0.1	
				10/27/2020	8.0	0.10	0.1	
				11/03/2020	8.3	0.10	0.1	
				11/17/2020	7.8	0.10	0.1	
				12/01/2020	8.0	0.10	0.1	
				12/08/2020	8.2	0.10	0.1	
		Annual Mean			8.1			
		Annual Max			8.3			
		EPA 9045C	pH units	Plant 2 Dewatering Cake	01/21/2020	7.9	0.10	0.1
					01/28/2020	8.2	0.10	0.1
					02/18/2020	8.1	0.10	0.1
					02/25/2020	8.0	0.10	0.1
					03/17/2020	8.1	0.10	0.1
					03/24/2020	8.0	0.10	0.1
					04/21/2020	8.2	0.10	0.1
	04/28/2020				8.1	0.10	0.1	
	05/19/2020				8.2	0.10	0.1	
	05/26/2020				8.1	0.10	0.1	
	06/02/2020				8.2	0.10	0.1	
	06/09/2020				8.1	0.10	0.1	
	07/21/2020				8.2	0.10	0.1	
	07/28/2020				8.2	0.10	0.1	
	08/18/2020				8.2	0.10	0.1	
	08/25/2020				7.9	0.10	0.1	
	09/15/2020	8.0	0.10	0.1				
	09/22/2020	8.2	0.10	0.1				
	10/20/2020	7.8	0.10	0.1				
	10/27/2020	8.0	0.10	0.1				
	11/03/2020	8.2	0.10	0.1				
	11/17/2020	7.9	0.10	0.1				
	12/01/2020	8.0	0.10	0.1				
	12/08/2020	8.3	0.10	0.1				
	Annual Mean			8.1				
	Annual Max			8.3				
Total Cyanide	EPA 9014	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	7.8	0.34	0.79	
				04/21/2020	ND	2.0	2.4	
				07/21/2020	ND	1.7	2.0	
				10/20/2020	ND	1.8	2.0	
				Annual Mean	3.3 DNQ			
				Annual Max	7.8			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
	EPA 9014	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	8.3	0.30	0.71	
				04/21/2020	ND	2.2	2.5	
				07/21/2020	ND	1.5	1.8	
				10/20/2020	ND	1.6	1.8	
				Annual Mean	3.4 DNQ			
				Annual Max	8.3			
Total Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/28/2020	52000	--	--	
				02/18/2020	54000	--	--	
				02/25/2020	51000	--	--	
				03/17/2020	51000	--	--	
				03/24/2020	55000	--	--	
				04/21/2020	69000	--	--	
				04/28/2020	49000	--	--	
				05/20/2020	53000	--	--	
				05/26/2020	55000	--	--	
				06/02/2020	51000	--	--	
				06/09/2020	49000	--	--	
				07/21/2020	55000	--	--	
				07/28/2020	53000	--	--	
				08/18/2020	47000	--	--	
				08/25/2020	51000	--	--	
				09/15/2020	56000	--	--	
				09/22/2020	64000	--	--	
				10/20/2020	62000	--	--	
				10/27/2020	55000	--	--	
				11/03/2020	58000	--	--	
				11/17/2020	56000	--	--	
	12/01/2020	52000	--	--				
	12/08/2020	57000	--	--				
		Annual Mean	55000					
		Annual Max	69000					
		CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/28/2020	52000	--	--
					02/18/2020	53000	--	--
					02/25/2020	51000	--	--
					03/17/2020	54000	--	--
					03/24/2020	52000	--	--
					04/21/2020	73000	--	--
					04/28/2020	53000	--	--
	05/19/2020				56000	--	--	
	05/26/2020				49000	--	--	
	06/02/2020				46000	--	--	
	06/09/2020				49000	--	--	
	07/21/2020				51000	--	--	
	07/28/2020				49000	--	--	
	08/18/2020				43000	--	--	
	08/25/2020				43000	--	--	
	09/15/2020				46000	--	--	
	09/22/2020				53000	--	--	
	10/20/2020				51000	--	--	
	10/27/2020	56000	--	--				
	11/03/2020	57000	--	--				
	11/17/2020	45000	--	--				
	12/01/2020	45000	--	--				
	12/08/2020	49000	--	--				
		Annual Mean	51000					
		Annual Max	73000					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
Total Solids	SM 2540G	%	Plant 1 Dewatering Cake	01/21/2020	24	0.050	0.050	
				01/28/2020	23	0.050	0.050	
				02/18/2020	24	0.050	0.050	
				02/25/2020	26	0.050	0.050	
				03/17/2020	24	0.050	0.050	
				03/24/2020	24	0.050	0.050	
				04/21/2020	20	0.050	0.050	
				04/28/2020	25	0.050	0.050	
				05/20/2020	25	0.050	0.050	
				05/26/2020	25	0.050	0.050	
				06/02/2020	26	0.050	0.050	
				06/09/2020	24	0.050	0.050	
				07/21/2020	25	0.050	0.050	
				07/28/2020	25	0.050	0.050	
				08/18/2020	23	0.050	0.050	
				08/25/2020	24	0.050	0.050	
				09/15/2020	23	0.050	0.050	
				09/22/2020	24	0.050	0.050	
				10/20/2020	24	0.050	0.050	
				10/27/2020	25	0.050	0.050	
	11/03/2020	23	0.050	0.050				
	11/17/2020	24	0.050	0.050				
	12/01/2020	23	0.050	0.050				
	12/08/2020	26	0.050	0.050				
		Annual Mean			24			
		Annual Max			26			
		SM 2540G	%	Plant 2 Dewatering Cake	01/21/2020	27	0.050	0.050
01/28/2020					25	0.050	0.050	
02/18/2020					28	0.050	0.050	
02/25/2020					27	0.050	0.050	
03/17/2020					26	0.050	0.050	
03/24/2020					27	0.050	0.050	
04/21/2020					19	0.050	0.050	
04/28/2020					26	0.050	0.050	
05/19/2020					25	0.050	0.050	
05/26/2020					27	0.050	0.050	
06/02/2020					28	0.050	0.050	
06/09/2020					25	0.050	0.050	
07/21/2020					28	0.050	0.050	
07/28/2020					27	0.050	0.050	
08/18/2020					27	0.050	0.050	
08/25/2020					27	0.050	0.050	
09/15/2020					28	0.050	0.050	
09/22/2020					26	0.050	0.050	
10/20/2020					27	0.050	0.050	
10/27/2020					27	0.050	0.050	
11/03/2020		22	0.050	0.050				
11/17/2020		29	0.050	0.050				
12/01/2020		28	0.050	0.050				
12/08/2020		25	0.050	0.050				
		Annual Mean			26			
		Annual Max			29			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
<b>Trace Elements</b>								
Antimony	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	ND	2.5	5.0	
				04/21/2020	ND	1.1	2.4	
				07/21/2020	ND	0.89	1.9	
				10/20/2020	3.6	0.95	2.0	
				Annual Mean	2.0 DNQ			
				Annual Max	3.6			
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	ND	2.3	4.7	
				04/21/2020	ND	1.2	2.6	
				07/21/2020	ND	0.80	1.8	
				10/20/2020	3.6	0.86	1.8	
				Annual Mean	2.0 DNQ			
				Annual Max	3.6			
	Arsenic	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	9.2	2.2	6.7
					01/28/2020	8.3	2.4	7.3
02/18/2020					ND	6.2	12	
02/25/2020					ND	6.0	12	
03/17/2020					ND	1.4	4.2	
03/24/2020					ND	1.3	4.1	
04/21/2020					ND	1.6	4.9	
04/28/2020					ND	1.3	4.0	
05/20/2020					ND	1.3	3.9	
05/26/2020					ND	1.3	3.9	
06/02/2020					ND	1.2	3.8	
06/09/2020					ND	1.3	4.0	
07/21/2020					ND	1.3	3.9	
07/28/2020					ND	1.3	4.0	
08/18/2020					ND	1.4	4.2	
08/25/2020					ND	1.4	4.2	
09/15/2020					ND	1.4	4.4	
09/22/2020					ND	1.4	4.2	
10/20/2020					8.7 DNQ	1.0	10	
10/27/2020					8.9 DNQ	1.0	10	
11/03/2020					10 DNQ	1.1	11	
11/17/2020					11	1.0	10	
12/01/2020	10 DNQ	1.1	11					
12/08/2020	12	0.96	9.5					
Annual Mean	4.6 DNQ							
Annual Max	12							



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	11	2.1	6.3			
				01/28/2020	12	2.3	7.0			
				02/18/2020	ND	5.5	11			
				02/25/2020	ND	5.6	11			
				03/17/2020	ND	1.3	3.8			
				03/24/2020	ND	1.2	3.6			
				04/21/2020	ND	1.7	5.2			
				04/28/2020	ND	1.2	3.8			
				05/19/2020	ND	1.3	3.9			
				05/26/2020	ND	1.2	3.7			
				06/02/2020	ND	1.1	3.4			
				06/09/2020	ND	1.3	3.9			
				07/21/2020	ND	1.2	3.5			
				07/28/2020	ND	1.2	3.7			
				08/18/2020	ND	1.2	3.6			
				08/25/2020	ND	1.2	3.6			
				09/15/2020	ND	1.2	3.5			
				09/22/2020	ND	1.2	3.8			
				10/20/2020	14	0.93	9.1			
				10/27/2020	14	0.93	9.1			
				11/03/2020	20	1.2	11			
				11/17/2020	17	0.88	8.6			
				12/01/2020	14	0.88	8.6			
12/08/2020	19	1.0	9.7							
			Annual Mean	6.2 DNQ						
			Annual Max	20						
Barium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	590	0.99	3.3			
				07/21/2020	540	0.76	19			
				Annual Mean	560					
				Annual Max	590					
				EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	1100	0.94	3.2
							07/21/2020	1300	0.69	18
Annual Mean	1200									
Annual Max	1300									
Beryllium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	ND	0.11	1.7			
				04/21/2020	ND	0.33	0.73			
				07/21/2020	ND	0.26	0.97			
				10/20/2020	0.11 DNQ	0.024	0.20			
				Annual Mean	0.20 DNQ					
				Annual Max	0.11 DNQ					
				EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	0.15 DNQ	0.10	1.6
							04/21/2020	ND	0.35	0.77
							07/21/2020	ND	0.24	0.88
							10/20/2020	0.093 DNQ	0.021	0.18
Annual Mean	0.21 DNQ									
Annual Max	0.093 DNQ									

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Cadmium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	1.5 DNQ	0.14	1.7
				01/28/2020	1.8	0.15	1.8
				02/18/2020	1.9 DNQ	0.25	2.0
				02/25/2020	2.3	0.24	1.9
				03/17/2020	1.8	0.082	0.21
				03/24/2020	1.9	0.081	0.20
				04/21/2020	2.1	0.096	0.24
				04/28/2020	1.9	0.078	0.20
				05/20/2020	1.8	0.078	0.20
				05/26/2020	1.9	0.078	0.20
				06/02/2020	1.5	0.075	0.19
				06/09/2020	1.9	0.079	0.20
				07/21/2020	1.5	0.077	0.19
				07/28/2020	1.7	0.079	0.20
				08/18/2020	1.7	0.082	0.21
				08/25/2020	1.4	0.083	0.21
				09/15/2020	1.4	0.087	0.22
				09/22/2020	1.6	0.083	0.21
				10/20/2020	1.2	0.17	0.40
				10/27/2020	1.2	0.17	0.40
				11/03/2020	1.2	0.18	0.43
				11/17/2020	0.97	0.17	0.41
				12/01/2020	1.5	0.18	0.43
				12/08/2020	1.6	0.16	0.38
	Annual Mean	1.6 DNQ					
	Annual Max	2.3					
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	2.6	0.13	1.6
				01/28/2020	2.5	0.14	1.8
				02/18/2020	2.0	0.22	1.8
				02/25/2020	2.4	0.22	1.8
				03/17/2020	2.6	0.076	0.19
				03/24/2020	3.1	0.071	0.18
				04/21/2020	4.0	0.10	0.26
				04/28/2020	2.7	0.074	0.19
				05/19/2020	2.7	0.077	0.20
				05/26/2020	2.2	0.073	0.18
06/02/2020				2.5	0.067	0.17	
06/09/2020				2.9	0.077	0.19	
07/21/2020				2.4	0.070	0.18	
07/28/2020				2.3	0.072	0.18	
08/18/2020				2.2	0.072	0.18	
08/25/2020				2.3	0.071	0.18	
09/15/2020				2.0	0.070	0.18	
09/22/2020				2.1	0.074	0.19	
10/20/2020				2.1	0.15	0.36	
10/27/2020				1.9	0.15	0.37	
11/03/2020				2.0	0.19	0.46	
11/17/2020				2.3	0.15	0.34	
12/01/2020	2.4	0.15	0.35				
12/08/2020	2.6	0.17	0.39				
Annual Mean	2.4						
Annual Max	4.0						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Chromium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	49	0.41	5.0
				01/28/2020	51	0.45	5.5
				02/18/2020	41	2.6	8.0
				02/25/2020	49	2.6	7.8
				03/17/2020	42	0.39	1.0
				03/24/2020	50	0.38	1.0
				04/21/2020	50	0.46	1.2
				04/28/2020	50	0.37	0.99
				05/20/2020	47	0.37	0.99
				05/26/2020	55	0.37	0.99
				06/02/2020	50	0.35	0.94
				06/09/2020	59	0.37	1.0
				07/21/2020	51	0.37	0.97
				07/28/2020	50	0.38	1.0
				08/18/2020	50	0.39	1.0
				08/25/2020	50	0.39	1.0
				09/15/2020	52	0.41	1.1
				09/22/2020	50	0.39	1.0
				10/20/2020	43	0.65	1.0
				10/27/2020	43	0.65	1.0
				11/03/2020	44	0.69	1.1
				11/17/2020	43	0.65	1.0
				12/01/2020	44	0.68	1.1
				12/08/2020	48	0.61	0.95
	Annual Mean		48				
	Annual Max		59				
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	44	0.39	4.7
				01/28/2020	45	0.43	5.3
				02/18/2020	33	2.3	7.1
				02/25/2020	43	2.4	7.2
				03/17/2020	42	0.36	0.96
				03/24/2020	46	0.34	0.90
				04/21/2020	55	0.48	1.3
				04/28/2020	42	0.35	0.94
				05/19/2020	45	0.37	0.98
				05/26/2020	39	0.35	0.92
				06/02/2020	51	0.32	0.85
				06/09/2020	63	0.36	0.97
				07/21/2020	64	0.33	0.88
				07/28/2020	66	0.34	0.91
				08/18/2020	66	0.34	0.91
				08/25/2020	62	0.34	0.90
				09/15/2020	53	0.33	0.89
				09/22/2020	56	0.35	0.94
				10/20/2020	46	0.59	0.91
				10/27/2020	47	0.59	0.91
				11/03/2020	51	0.73	1.1
				11/17/2020	43	0.55	0.86
12/01/2020				40	0.56	0.86	
12/08/2020				52	0.63	0.97	
Annual Mean		50					
Annual Max		66					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Cobalt	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	2.5 DNQ	0.23	3.3
				07/21/2020	2.6	0.20	0.97
				Annual Mean	2.6 DNQ		
				Annual Max	2.6		
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	3.1 DNQ	0.21	3.2
				07/21/2020	2.4	0.18	0.88
				Annual Mean	2.8 DNQ		
				Annual Max	2.4		
Copper	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	510	0.73	6.7
				01/28/2020	550	0.79	7.3
				02/18/2020	470	6.0	10
				02/25/2020	540	5.9	9.7
				03/17/2020	570	0.30	1.0
				03/24/2020	620	0.30	1.0
				04/21/2020	560	0.35	1.2
				04/28/2020	530	0.29	0.99
				05/20/2020	520	0.29	0.99
				05/26/2020	490	0.29	0.99
				06/02/2020	440	0.27	0.94
				06/09/2020	530	0.29	1.0
				07/21/2020	540	0.28	0.97
				07/28/2020	540	0.29	1.0
				08/18/2020	570	0.30	1.0
				08/25/2020	260	0.30	1.0
					570	0.30	1.0
				09/15/2020	670	0.32	1.1
				09/22/2020	640	0.30	1.0
				10/20/2020	540	0.46	1.0
				10/27/2020	560	0.47	1.0
				11/03/2020	540	0.49	1.1
				11/17/2020	520	0.47	1.0
12/01/2020	520	0.49	1.1				
12/08/2020	530	0.44	0.95				
	Annual Mean	530					
	Annual Max	670					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	430	0.69	6.3
				01/28/2020	470	0.76	7.0
				02/18/2020	350	5.4	8.9
				02/25/2020	460	5.5	9.0
				03/17/2020	540	0.28	0.96
				03/24/2020	540	0.26	0.90
				04/21/2020	630	0.38	1.3
				04/28/2020	470	0.27	0.94
				05/19/2020	470	0.29	0.98
				05/26/2020	360	0.27	0.92
				06/02/2020	420	0.25	0.85
				06/09/2020	490	0.28	0.97
				07/21/2020	500	0.26	0.88
				07/28/2020	540	0.27	0.91
				08/18/2020	500	0.27	0.91
				08/25/2020	480	0.26	0.91
				09/15/2020	490	0.26	0.89
				09/22/2020	510	0.27	0.94
				10/20/2020	470	0.42	0.91
				10/27/2020	530	0.42	0.91
				11/03/2020	520	0.53	1.1
				11/17/2020	450	0.40	0.86
				12/01/2020	410	0.40	0.86
12/08/2020	490	0.45	0.97				
			Annual Mean	480			
			Annual Max	630			
Iron	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	69000	28	67
				01/28/2020	68000	30	73
				02/18/2020	63000	26	40
				02/25/2020	66000	14	78
				03/17/2020	56000	15	83
				03/24/2020	65000	14	82
				04/21/2020	65000	17	97
				04/28/2020	78000	14	79
				05/20/2020	64000	14	79
				05/26/2020	60000	14	79
				06/02/2020	63000	13	75
				06/09/2020	72000	14	80
				07/21/2020	65000	14	78
				07/28/2020	71000	14	80
				08/18/2020	71000	15	83
				08/25/2020	73000	15	84
				09/15/2020	74000	16	88
				09/22/2020	72000	15	84
				10/20/2020	63000	4.8	80
				10/27/2020	70000	4.8	81
				11/03/2020	64000	5.1	85
				11/17/2020	62000	4.8	82
				12/01/2020	62000	5.1	85
12/08/2020	62000	4.5	76				
			Annual Mean	67000			
			Annual Max	78000			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	70000	26	63
				01/28/2020	74000	29	70
				02/18/2020	66000	23	35
				02/25/2020	70000	13	72
				03/17/2020	66000	14	77
				03/24/2020	73000	13	72
				04/21/2020	90000	18	100
				04/28/2020	78000	13	75
				05/19/2020	77000	14	78
				05/26/2020	62000	13	74
				06/02/2020	72000	12	68
				06/09/2020	83000	14	78
				07/21/2020	79000	12	70
				07/28/2020	85000	13	73
				08/18/2020	78000	13	73
				08/25/2020	82000	13	72
				09/15/2020	74000	13	71
				09/22/2020	81000	13	75
				10/20/2020	74000	4.3	73
				10/27/2020	82000	4.4	73
				11/03/2020	84000	5.4	91
				11/17/2020	82000	4.1	69
				12/01/2020	69000	4.1	69
12/08/2020	85000	4.6	78				
			Annual Mean	76000			
			Annual Max	90000			
Lead	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	12	1.0	3.0
				01/28/2020	14	1.1	3.3
				02/18/2020	11	3.0	4.0
				02/25/2020	12	3.0	3.9
				03/17/2020	12	0.45	1.0
				03/24/2020	13	0.44	1.0
				04/21/2020	13	0.52	1.2
				04/28/2020	14	0.43	0.99
				05/20/2020	15	0.42	0.99
				05/26/2020	13	0.42	0.99
				06/02/2020	12	0.41	0.94
				06/09/2020	15	0.43	1.0
				07/21/2020	15	0.42	1.9
				07/28/2020	15	0.43	2.0
				08/18/2020	13	0.45	2.1
				08/25/2020	13	0.45	2.1
				09/15/2020	3.4	0.47	2.2
				09/22/2020	3.2	0.45	2.1
				10/20/2020	1.5 DNQ	0.58	2.0
				10/27/2020	2.9	0.58	2.0
				11/03/2020	2.7	0.61	2.1
				11/17/2020	2.2	0.59	2.0
				12/01/2020	18	0.61	2.1
12/08/2020	4.6	0.54	1.9				
			Annual Mean	10 DNQ			
			Annual Max	18			



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	28	0.98	2.8
				01/28/2020	19	1.1	3.2
				02/18/2020	14	2.7	3.5
				02/25/2020	17	2.7	3.6
				03/17/2020	17	0.41	0.96
				03/24/2020	19	0.39	0.90
				04/21/2020	21	0.56	1.3
				04/28/2020	18	0.40	0.94
				05/19/2020	22	0.42	0.98
				05/26/2020	16	0.40	0.92
				06/02/2020	20	0.37	0.85
				06/09/2020	23	0.42	0.97
				07/21/2020	18	0.38	1.8
				07/28/2020	18	0.39	1.8
				08/18/2020	17	0.39	1.8
				08/25/2020	17	0.39	1.8
				09/15/2020	6.7	0.38	1.8
				09/22/2020	6.2	0.40	1.9
				10/20/2020	6.2	0.52	1.8
				10/27/2020	6.1	0.53	1.8
				11/03/2020	5.9	0.66	2.3
				11/17/2020	4.8	0.49	1.7
				12/01/2020	3.6	0.50	1.7
12/08/2020	6.9	0.56	1.9				
			Annual Mean	15			
			Annual Max	28			
Magnesium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	5100	27	67
				01/28/2020	5000	29	73
				02/18/2020	4100	13	100
				02/25/2020	4900	13	97
				03/17/2020	4600	18	42
				03/24/2020	5700	17	41
				04/21/2020	5800	21	49
				04/28/2020	7900	17	40
				05/20/2020	6100	17	39
				05/26/2020	5700	17	39
				06/02/2020	6400	16	38
				06/09/2020	7000	17	40
				07/21/2020	7000	16	39
				07/28/2020	7600	17	40
				08/18/2020	7500	18	42
				08/25/2020	7100	18	42
				09/15/2020	7200	19	44
				09/22/2020	7000	18	42
				10/20/2020	5800	8.9	40
				10/27/2020	6400	8.9	40
				11/03/2020	6400	9.4	43
				11/17/2020	5500	9.0	41
				12/01/2020	5300	9.4	43
12/08/2020	5600	8.3	38				
			Annual Mean	6100			
			Annual Max	7900			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	6700	25	63
				01/28/2020	7000	28	70
				02/18/2020	5200	12	89
				02/25/2020	6300	12	90
				03/17/2020	5900	16	38
				03/24/2020	6700	15	36
				04/21/2020	7700	22	52
				04/28/2020	7200	16	38
				05/19/2020	6700	17	39
				05/26/2020	5400	16	37
				06/02/2020	6700	14	34
				06/09/2020	7400	16	39
				07/21/2020	6800	15	35
				07/28/2020	7300	15	37
				08/18/2020	7000	15	36
				08/25/2020	7300	15	36
				09/15/2020	6700	15	35
				09/22/2020	7400	16	38
				10/20/2020	6500	8.0	36
				10/27/2020	6900	8.1	37
				11/03/2020	7400	10	46
				11/17/2020	6000	7.6	34
				12/01/2020	5500	7.6	35
12/08/2020	7000	8.6	39				
				Annual Mean	6700		
				Annual Max	7700		
Mercury	EPA 7471A	mg/kg dry weight	Plant 1 Dewatering Cake	01/28/2020	1.2	0.050	0.084
				02/18/2020	0.62	0.048	0.080
				02/25/2020	0.87	0.047	0.078
				03/17/2020	0.70	0.050	0.083
				03/24/2020	0.63	0.051	0.084
				04/21/2020	1.8	0.058	0.097
				04/28/2020	0.55	0.047	0.078
				05/20/2020	0.50	0.050	0.083
				05/26/2020	0.52	0.048	0.079
				06/02/2020	0.46	0.047	0.078
				06/09/2020	0.49	0.048	0.080
				07/21/2020	0.43	0.048	0.080
				07/28/2020	0.54	0.048	0.080
				08/18/2020	1.1	0.051	0.085
				08/25/2020	0.87	0.051	0.084
				09/15/2020	0.47	0.054	0.090
				09/22/2020	0.66	0.050	0.083
				10/20/2020	0.42	0.049	0.082
				10/27/2020	0.78	0.048	0.080
				11/03/2020	0.69	0.050	0.084
				11/17/2020	0.62	0.051	0.084
				12/01/2020	0.69	0.053	0.088
				12/08/2020	0.55	0.047	0.078
				Annual Mean	0.70		
				Annual Max	1.8		

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 7471A	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	0.98	0.33	0.33
				01/28/2020	ND	0.047	0.079
				02/18/2020	0.95	0.043	0.072
				02/25/2020	0.63	0.044	0.074
				03/17/2020	0.48	0.048	0.080
				03/24/2020	0.67	0.043	0.071
				04/21/2020	0.62	0.061	0.10
				04/28/2020	0.42	0.047	0.078
				05/19/2020	0.60	0.049	0.082
				05/26/2020	0.60	0.046	0.076
				06/02/2020	0.35	0.043	0.072
				06/09/2020	0.46	0.048	0.080
				07/21/2020	0.49	0.043	0.071
				07/28/2020	0.45	0.046	0.077
				08/18/2020	0.41	0.045	0.075
				08/25/2020	0.62	0.044	0.073
				09/15/2020	0.62	0.043	0.072
				09/22/2020	0.74	0.047	0.078
				10/20/2020	0.40	0.043	0.072
				10/27/2020	0.53	0.044	0.074
				11/03/2020	0.36	0.055	0.091
				11/17/2020	0.84	0.042	0.070
				12/01/2020	0.49	0.041	0.069
12/08/2020	0.38	0.049	0.081				
	Annual Mean			0.55	DNQ		
	Annual Max			0.98			
Molybdenum	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	16	0.39	6.7
				01/28/2020	16	0.42	7.3
				02/18/2020	14	0.73	8.0
				02/25/2020	18	0.71	7.8
				03/17/2020	16	0.44	1.0
				03/24/2020	17	0.43	1.0
				04/21/2020	19	0.51	1.2
				04/28/2020	18	0.41	0.99
				05/20/2020	18	0.41	0.99
				05/26/2020	18	0.41	0.99
				06/02/2020	16	0.40	0.94
				06/09/2020	20	0.42	1.0
				07/21/2020	19	0.41	0.97
				07/28/2020	20	0.42	1.0
				08/18/2020	20	0.44	1.0
				08/25/2020	21	0.44	1.0
				09/15/2020	20	0.46	1.1
				09/22/2020	19	0.44	1.0
				10/20/2020	18	0.20	2.0
				10/27/2020	18	0.20	2.0
				11/03/2020	18	0.21	2.1
				11/17/2020	18	0.20	2.0
				12/01/2020	18	0.21	2.1
12/08/2020	17	0.19	1.9				
	Annual Mean			18			
	Annual Max			21			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	16	0.36	6.3
				01/28/2020	16	0.40	7.0
				02/18/2020	13	0.65	7.1
				02/25/2020	17	0.66	7.2
				03/17/2020	18	0.40	0.96
				03/24/2020	20	0.38	0.90
				04/21/2020	27	0.54	1.3
				04/28/2020	21	0.39	0.94
				05/19/2020	20	0.41	0.98
				05/26/2020	16	0.39	0.92
				06/02/2020	19	0.36	0.85
				06/09/2020	22	0.41	0.97
				07/21/2020	19	0.37	0.88
				07/28/2020	21	0.38	0.91
				08/18/2020	20	0.38	0.91
				08/25/2020	21	0.38	0.90
				09/15/2020	19	0.37	0.89
				09/22/2020	21	0.39	0.94
				10/20/2020	19	0.18	1.8
				10/27/2020	20	0.18	1.8
				11/03/2020	22	0.23	2.3
				11/17/2020	20	0.17	1.7
				12/01/2020	18	0.17	1.7
12/08/2020	22	0.19	1.9				
			Annual Mean	19			
			Annual Max	27			
Nickel	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	36	0.44	13
				01/28/2020	38	0.48	15
				02/18/2020	36	2.0	8.0
				02/25/2020	42	2.0	7.8
				03/17/2020	32	0.74	2.1
				03/24/2020	40	0.72	2.0
				04/21/2020	40	0.86	2.4
				04/28/2020	37	0.70	2.0
				05/20/2020	38	0.70	2.0
				05/26/2020	36	0.70	2.0
				06/02/2020	30	0.67	1.9
				06/09/2020	42	0.71	2.0
				07/21/2020	37	0.69	1.9
				07/28/2020	33	0.71	2.0
				08/18/2020	38	0.74	2.1
				08/25/2020	38	0.74	2.1
				09/15/2020	35	0.78	2.2
				09/22/2020	34	0.74	2.1
				10/20/2020	32	0.56	2.0
				10/27/2020	39	0.57	2.0
				11/03/2020	34	0.60	2.1
				11/17/2020	34	0.57	2.0
				12/01/2020	41	0.60	2.1
12/08/2020	47	0.53	1.9				
			Annual Mean	37			
			Annual Max	47			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	35	0.42	13
				01/28/2020	36	0.46	14
				02/18/2020	31	1.8	7.1
				02/25/2020	48	1.8	7.2
				03/17/2020	40	0.68	1.9
				03/24/2020	46	0.64	1.8
				04/21/2020	52	0.91	2.6
				04/28/2020	39	0.67	1.9
				05/19/2020	32	0.69	2.0
				05/26/2020	25	0.65	1.8
				06/02/2020	29	0.60	1.7
				06/09/2020	36	0.69	1.9
				07/21/2020	30	0.62	1.8
				07/28/2020	33	0.65	1.8
				08/18/2020	29	0.65	1.8
				08/25/2020	27	0.64	1.8
				09/15/2020	31	0.63	1.8
				09/22/2020	34	0.67	1.9
				10/20/2020	25	0.51	1.8
				10/27/2020	27	0.51	1.8
				11/03/2020	28	0.64	2.3
				11/17/2020	31	0.48	1.7
				12/01/2020	27	0.48	1.7
12/08/2020	33	0.55	1.9				
			Annual Mean	34			
			Annual Max	52			
Selenium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	12	2.9	6.0
				01/28/2020	12	3.1	6.6
				02/18/2020	ND	3.8	20
				02/25/2020	ND	3.7	19
				03/17/2020	ND	0.99	2.1
				03/24/2020	ND	0.97	2.0
				04/21/2020	ND	1.2	2.4
				04/28/2020	ND	0.94	2.0
				05/20/2020	ND	0.94	2.0
				05/26/2020	ND	0.94	2.0
				06/02/2020	ND	0.90	1.9
				06/09/2020	ND	0.95	2.0
				07/21/2020	ND	0.93	1.9
				07/28/2020	ND	0.95	2.0
				08/18/2020	ND	0.99	2.1
				08/25/2020	ND	1.0	2.1
				09/15/2020	ND	1.0	2.2
				09/22/2020	ND	1.0	2.1
				10/20/2020	6.8	1.0	2.0
				10/27/2020	5.7	1.0	2.0
				11/03/2020	6.3	1.1	2.1
				11/17/2020	13	1.0	2.0
				12/01/2020	8.5	1.1	2.1
12/08/2020	8.5	0.94	1.9				
			Annual Mean	3.9 DNQ			
			Annual Max	13			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	11	2.7	5.7	
				01/28/2020	12	3.0	6.3	
				02/18/2020	ND	3.3	18	
				02/25/2020	ND	3.4	18	
				03/17/2020	ND	0.91	1.9	
				03/24/2020	ND	0.86	1.8	
				04/21/2020	ND	1.2	2.6	
				04/28/2020	ND	0.89	1.9	
				05/19/2020	ND	0.93	2.0	
				05/26/2020	ND	0.88	1.8	
				06/02/2020	ND	0.81	1.7	
				06/09/2020	ND	0.92	1.9	
				07/21/2020	ND	0.84	1.8	
				07/28/2020	ND	0.87	1.8	
				08/18/2020	ND	0.87	1.8	
				08/25/2020	ND	0.86	1.8	
				09/15/2020	ND	0.84	1.8	
				09/22/2020	ND	0.89	1.9	
				10/20/2020	6.8	0.90	1.8	
				10/27/2020	6.9	0.91	1.8	
				11/03/2020	7.7	1.1	2.3	
				11/17/2020	4.6	0.85	1.7	
				12/01/2020	8.3	0.85	1.7	
				12/08/2020	8.4	0.96	1.9	
	Annual Mean			3.5	DNQ			
	Annual Max			12				
Silver	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	5.2	0.54	3.3	
				01/28/2020	4.7	0.58	3.7	
				02/18/2020	3.4	DNQ	0.46	10
				02/25/2020	2.8	DNQ	0.45	9.7
				03/17/2020	4.0	0.50	1.7	
				03/24/2020	4.6	0.49	1.6	
				04/21/2020	3.3	0.59	1.9	
				04/28/2020	5.1	0.48	1.6	
				05/20/2020	3.1	0.48	1.6	
				05/26/2020	2.8	0.48	1.6	
				06/02/2020	5.8	0.46	1.5	
				06/09/2020	3.2	0.48	1.6	
				07/21/2020	2.9	0.47	1.6	
				07/28/2020	3.4	0.48	1.6	
				08/18/2020	2.5	0.50	1.7	
				08/25/2020	3.6	0.51	1.7	
				09/15/2020	3.7	0.53	1.8	
				09/22/2020	3.5	0.51	1.7	
				10/20/2020	3.3	0.050	1.6	
				10/27/2020	3.1	0.050	1.6	
				11/03/2020	4.0	0.053	1.7	
				11/17/2020	2.8	0.051	1.6	
				12/01/2020	2.8	0.053	1.7	
				12/08/2020	3.1	0.047	1.5	
	Annual Mean			3.6	DNQ			
	Annual Max			5.8				



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	3.5	0.51	3.2
				01/28/2020	4.1	0.56	3.5
				02/18/2020	2.8 DNQ	0.41	8.9
				02/25/2020	2.6 DNQ	0.42	9.0
				03/17/2020	4.0	0.47	1.5
				03/24/2020	4.4	0.44	1.4
				04/21/2020	5.2	0.63	2.1
				04/28/2020	4.0	0.45	1.5
				05/19/2020	3.5	0.47	1.6
				05/26/2020	2.8	0.45	1.5
				06/02/2020	4.6	0.41	1.4
				06/09/2020	4.1	0.47	1.6
				07/21/2020	2.8	0.43	1.4
				07/28/2020	3.2	0.44	1.5
				08/18/2020	2.6	0.44	1.5
				08/25/2020	3.7	0.44	1.4
				09/15/2020	3.1	0.43	1.4
				09/22/2020	3.2	0.45	1.5
				10/20/2020	2.5	0.045	1.5
				10/27/2020	2.6	0.046	1.5
				11/03/2020	3.1	0.057	1.8
				11/17/2020	2.6	0.043	1.4
				12/01/2020	2.3	0.043	1.4
12/08/2020	2.8	0.049	1.6				
			Annual Mean	3.3 DNQ			
			Annual Max	5.2			
Thallium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	ND	2.2	4.4
				04/21/2020	ND	0.75	1.2
				07/21/2020	ND	0.60	0.97
				10/20/2020	1.1	0.49	1.0
				Annual Mean	1.2 DNQ		
	Annual Max	1.1					
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	ND	2.1	4.1
				04/21/2020	ND	0.80	1.3
				07/21/2020	ND	0.54	0.88
				10/20/2020	1.4	0.45	0.91
Annual Mean				1.2 DNQ			
Annual Max	1.4						
Vanadium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	26	0.31	6.7
				07/21/2020	28	0.26	0.97
				Annual Mean	27		
				Annual Max	28		
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	79	0.30	6.3
				07/21/2020	87	0.23	0.88
				Annual Mean	83		
			Annual Max	87			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
Zinc	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/21/2020	780	1.3	10	
				01/28/2020	820	1.5	11	
				02/18/2020	650	8.0	20	
				02/25/2020	710	3.3	19	
				03/17/2020	670	3.6	21	
				03/24/2020	830	3.5	20	
				04/21/2020	780	4.2	24	
				04/28/2020	790	3.4	20	
				05/20/2020	840	3.4	20	
				05/26/2020	770	3.4	20	
				06/02/2020	690	3.2	19	
				06/09/2020	840	3.4	20	
				07/21/2020	820	3.3	19	
				07/28/2020	760	3.4	20	
				08/18/2020	790	3.6	21	
				08/25/2020	830	3.6	21	
				09/15/2020	900	3.8	22	
				09/22/2020	850	3.6	21	
				10/20/2020	770	3.4	20	
				10/27/2020	730	3.5	20	
				11/03/2020	840	3.7	21	
				11/17/2020	750	3.5	20	
				12/01/2020	800	3.7	21	
				12/08/2020	810	3.2	19	
		Annual Mean			780			
		Annual Max			900			
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/21/2020	720	1.3	9.5
					01/28/2020	750	1.4	11
					02/18/2020	560	7.1	18
					02/25/2020	660	3.1	18
					03/17/2020	720	3.3	19
					03/24/2020	780	3.1	18
					04/21/2020	960	4.4	26
					04/28/2020	810	3.2	19
					05/19/2020	850	3.4	20
					05/26/2020	630	3.2	18
	06/02/2020				720	2.9	17	
	06/09/2020				850	3.3	19	
	07/21/2020	770	3.0	18				
	07/28/2020	770	3.1	18				
	08/18/2020	740	3.1	18				
	08/25/2020	740	3.1	18				
	09/15/2020	750	3.0	18				
	09/22/2020	780	3.2	19				
	10/20/2020	690	3.1	18				
	10/27/2020	720	3.1	18				
	11/03/2020	850	3.9	23				
	11/17/2020	690	2.9	17				
	12/01/2020	660	3.0	17				
	12/08/2020	800	3.3	19				
	Annual Mean			750				
	Annual Max			960				

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
<b>Volatile Organic Compounds</b>							
1,1,1,2-Tetrachloroethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
	Annual Mean	<1600					
		Annual Max	<1600				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
	Annual Mean				<1.6		
	Annual Max				<1.6		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
	Annual Max	<1200					
	1,1,1-Trichloroethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
Annual Mean					<90		
Annual Max					<90		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
Annual Mean		<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
Annual Mean					<1.6		
Annual Max					<1.6		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
	1,1,2,2-Tetrachloroethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
Annual Mean					<90		
Annual Max					<90		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
Annual Mean		<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
Annual Mean					<1.6		
Annual Max					<1.6		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
1,1,2-Trichloroethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
	Annual Mean				<1.6		
	Annual Max				<1.6		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
	1,1-Dichloroethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
Annual Mean					<90		
Annual Max					<90		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
Annual Mean		<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
Annual Mean					<1.6		
Annual Max					<1.6		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
	1,1-Dichloroethene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180
Annual Mean					<180		
Annual Max					<180		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
Annual Mean		<1600					
		Annual Max	<1600				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
Annual Mean					<1.6		
Annual Max					<1.6		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
	Annual Max	<1200					
	1,1-Dichloropropene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
Annual Mean					<90		
Annual Max					<90		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
Annual Mean		<780					
		Annual Max	<780				

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2	
				Annual Mean	<1.6			
				Annual Max	<1.6			
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000	
				07/21/2020	ND	280	550	
				11/03/2020	ND	620	1200	
	Annual Mean	<620						
	Annual Max	<620						
	1,2,3- Trichlorobenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
					Annual Mean	<180		
Annual Max					<180			
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	890	2200	
				07/28/2020	ND	910	2300	
				11/03/2020	ND	1600	3900	
Annual Mean		<1600						
Annual Max		<1600						
EPA 8260B		µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	8.1	
				Annual Mean	<1.6			
	Annual Max			<1.6				
	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600		
			07/21/2020	ND	550	1400		
			11/03/2020	ND	1200	3100		
Annual Mean	<1200							
Annual Max	<1200							
1,2,3- Trichloropropane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	900	
				Annual Mean	<180			
				Annual Max	<180			
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	4400	
				07/28/2020	ND	910	4600	
				11/03/2020	ND	1600	7800	
	Annual Mean	<1600						
	Annual Max	<1600						
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	16	
				Annual Mean	<1.6			
Annual Max				<1.6				
µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	1000	5200		
			07/21/2020	ND	550	2800		
			11/03/2020	ND	1200	6200		
Annual Mean	<1200							
Annual Max	<1200							
1,2,4- Trichlorobenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450	
				Annual Mean	<180			
				Annual Max	<180			
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200	
				07/28/2020	ND	910	2300	
				11/03/2020	ND	1600	3900	
	Annual Mean	<1600						
	Annual Max	<1600						
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	8.1	
				Annual Mean	<1.6			
Annual Max				<1.6				
µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600		
			07/21/2020	ND	550	1400		
			11/03/2020	ND	1200	3100		
Annual Mean	<1200							
Annual Max	<1200							

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
1,2,4-Trimethylbenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	110	1.6
	Annual Mean				110		
	Annual Max				110		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
	1,2-Dibromo-3-chloropropane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180
Annual Mean					<180		
Annual Max					<180		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
Annual Mean		<1600					
		Annual Max	<1600				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	3.2
Annual Mean					<3.2		
Annual Max					<3.2		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
	Annual Max	<1200					
	1,2-Dibromoethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
Annual Mean					<90		
Annual Max					<90		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
Annual Mean		<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
Annual Mean					<1.6		
Annual Max					<1.6		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
	1,2-Dichlorobenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
Annual Mean					<90		
Annual Max					<90		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
11/03/2020		ND	780	1600			
Annual Mean		<780					
Annual Max		<780					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2	
				Annual Mean	<1.6			
				Annual Max	<1.6			
		µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
					07/21/2020	ND	280	550
					11/03/2020	ND	620	1200
	Annual Mean	<620						
	Annual Max	<620						
	1,2-Dichloroethane	EPA 8260B	µg/kg		Plant 1 Dewatering Cake	04/22/2020	ND	90
				Annual Mean		<90		
Annual Max				<90				
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020		ND	440	890
				07/28/2020		ND	460	910
				11/03/2020		ND	780	1600
Annual Mean		<780						
Annual Max		<780						
EPA 8260B		µg/kg		Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
			Annual Mean		<1.6			
	Annual Max		<1.6					
	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020		ND	520	1000	
			07/21/2020		ND	280	550	
			11/03/2020		ND	620	1200	
Annual Mean	<620							
Annual Max	<620							
1,2-Dichloropropane	EPA 8260B		µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
		Annual Mean			<90			
		Annual Max			<90			
		µg/kg dry	Plant 1 Dewatering Cake		01/21/2020	ND	440	890
					07/28/2020	ND	460	910
					11/03/2020	ND	780	1600
	Annual Mean	<780						
	Annual Max	<780						
	EPA 8260B	µg/kg		Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
			Annual Mean		<1.6			
Annual Max			<1.6					
µg/kg dry		Plant 2 Dewatering Cake	01/21/2020		ND	520	1000	
			07/21/2020		ND	280	550	
			11/03/2020		ND	620	1200	
Annual Mean	<620							
Annual Max	<620							
1,3,5-Trichlorobenzene	EPA 8260B		µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	360
		Annual Mean			<180			
		Annual Max			<180			
		µg/kg dry	Plant 1 Dewatering Cake		01/21/2020	ND	890	1800
					07/28/2020	ND	910	1800
					11/03/2020	ND	1600	3100
	Annual Mean	<1600						
	Annual Max	<1600						
	EPA 8260B	µg/kg		Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
			Annual Mean		<1.6			
Annual Max			<1.6					
µg/kg dry		Plant 2 Dewatering Cake	01/21/2020		ND	1000	2100	
			07/21/2020		ND	550	1100	
			11/03/2020		ND	1200	2500	
Annual Mean	<1200							
Annual Max	<1200							



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
1,3,5-Trimethylbenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	34	1.6
	Annual Mean				34		
	Annual Max				34		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
1,3-Dichlorobenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
		Annual Max	<780				
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
1,3-Dichloropropane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
		Annual Max	<780				
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
1,4-Dichlorobenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
	Annual Mean	<780					
		Annual Max	<780				
	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
µg/kg dry		Plant 1 Dewatering Cake	01/21/2020	ND	440	890	
			07/28/2020	ND	460	910	
Annual Mean	<780						
	Annual Max	<780					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2	
				Annual Mean	<1.6			
				Annual Max	<1.6			
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000	
				07/21/2020	ND	280	550	
				11/03/2020	ND	620	1200	
	Annual Mean	<620						
	Annual Max	<620						
	2,2-Dichloropropane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	360
					Annual Mean	<180		
Annual Max					<180			
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	890	1800	
				07/28/2020	ND	910	1800	
				11/03/2020	ND	1600	3100	
Annual Mean		<1600						
Annual Max		<1600						
EPA 8260B		µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2	
				Annual Mean	<1.6			
	Annual Max			<1.6				
	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2100		
			07/21/2020	ND	550	1100		
			11/03/2020	ND	1200	2500		
Annual Mean	<1200							
Annual Max	<1200							
2-Chlorotoluene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450	
				Annual Mean	<180			
				Annual Max	<180			
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200	
				07/28/2020	ND	910	2300	
				11/03/2020	ND	1600	3900	
	Annual Mean	<1600						
	Annual Max	<1600						
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	8.1	
				Annual Mean	<1.6			
Annual Max				<1.6				
µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600		
			07/21/2020	ND	550	1400		
			11/03/2020	ND	1200	3100		
Annual Mean	<1200							
Annual Max	<1200							
2-Hexanone	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	900	2200	
				Annual Mean	<900			
				Annual Max	<900			
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	4400	11000	
				07/28/2020	ND	4600	11000	
				11/03/2020	ND	7800	19000	
	Annual Mean	<7800						
	Annual Max	<7800						
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	8.1	40	
				Annual Mean	<8.1			
Annual Max				<8.1				
µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	5200	13000		
			07/21/2020	ND	2800	6900		
			11/03/2020	ND	6200	16000		
Annual Mean	<6200							
Annual Max	<6200							

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
4-Chlorotoluene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	450
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	2200
				07/28/2020	ND	460	2300
				11/03/2020	ND	780	3900
	Annual Mean	<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
	Annual Mean				<1.6		
	Annual Max				<1.6		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	2600
				07/21/2020	ND	280	1400
				11/03/2020	ND	620	3100
Annual Mean	<620						
	Annual Max	<620					
	Acrolein	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	3600
Annual Mean					<3600		
Annual Max					<3600		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	18000	44000
				07/28/2020	ND	18000	46000
				11/03/2020	ND	31000	78000
Annual Mean			<31000				
			Annual Max	<31000			
EPA 8260B		µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	16	160
				Annual Mean	<16		
				Annual Max	<16		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	21000	52000
				07/21/2020	ND	11000	28000
				11/03/2020	ND	25000	62000
Annual Mean	<25000						
	Annual Max	<25000					
Acrylonitrile	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	1800	9000
				Annual Mean	<1800		
				Annual Max	<1800		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	8900	44000
				07/28/2020	ND	9100	46000
				11/03/2020	ND	16000	78000
		Annual Mean	<16000				
			Annual Max	<16000			
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	32	160
				Annual Mean	<32		
				Annual Max	<32		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	10000	52000
				07/21/2020	ND	5500	28000
				11/03/2020	ND	12000	62000
Annual Mean	<12000						
	Annual Max	<12000					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Benzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
	Annual Mean				<1.6		
	Annual Max				<1.6		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
Bromobenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
	Annual Mean	<1600					
		Annual Max	<1600				
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	8.1
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
	Annual Max	<1200					
Bromochloromethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
	Annual Mean	<1600					
		Annual Max	<1600				
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	8.1
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
	Annual Max	<1200					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Bromodichloromethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
	Annual Mean				<1.6		
	Annual Max				<1.6		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
	Bromoform	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180
Annual Mean					<180		
Annual Max					<180		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
Annual Mean		<1600					
		Annual Max	<1600				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	3.2
Annual Mean					<3.2		
Annual Max					<3.2		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
	Annual Max	<1200					
	Bromomethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180
Annual Mean					<180		
Annual Max					<180		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
Annual Mean		<1600					
		Annual Max	<1600				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
Annual Mean					<1.6		
Annual Max					<1.6		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
	Annual Max	<1200					
	Carbon tetrachloride	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180
Annual Mean					<180		
Annual Max					<180		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
Annual Mean		<1600					
		Annual Max	<1600				

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	8.1		
				Annual Mean	<1.6				
				Annual Max	<1.6				
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600		
				07/21/2020	ND	550	1400		
				11/03/2020	ND	1200	3100		
	Annual Mean			<1200					
	Annual Max	<1200							
	Chlorobenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180	
					Annual Mean	<90			
Annual Max					<90				
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	890		
				07/28/2020	ND	460	910		
				11/03/2020	ND	780	1600		
				Annual Mean	<780				
Annual Max			<780						
EPA 8260B		µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2		
				Annual Mean	<1.6				
	Annual Max			<1.6					
	µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	520	1000	
07/21/2020	ND	280	550						
11/03/2020	ND	620	1200						
Annual Mean	<620								
Annual Max	<620								
Chloroethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450		
				Annual Mean	<180				
				Annual Max	<180				
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200		
				07/28/2020	ND	910	2300		
				11/03/2020	ND	1600	3900		
				Annual Mean	<1600				
		Annual Max	<1600						
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	3.2	8.1		
				Annual Mean	<3.2				
				Annual Max	<3.2				
				µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400		
				11/03/2020	ND	1200	3100		
Annual Mean	<1200								
Annual Max	<1200								
Chloroform	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180		
				Annual Mean	<90				
				Annual Max	<90				
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890		
				07/28/2020	ND	460	910		
				11/03/2020	ND	780	1600		
				Annual Mean	<780				
		Annual Max	<780						
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2		
				Annual Mean	<1.6				
				Annual Max	<1.6				
				µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550		
				11/03/2020	ND	620	1200		
Annual Mean	<620								
Annual Max	<620								

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Chloromethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
	Annual Mean	<1600					
		Annual Max	<1600				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
	Annual Mean				<1.6		
	Annual Max				<1.6		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
Annual Max	<1200						
cis-1,2-Dichloroethene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
	Annual Max	<780					
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
Annual Max	<620						
cis-1,3-Dichloropropene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
	Annual Max	<780					
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
Annual Max	<620						
Dibromochloromethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
		Annual Mean	<780				
		Annual Max	<780				



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2	
				Annual Mean	<1.6			
				Annual Max	<1.6			
		µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
					07/21/2020	ND	280	550
					11/03/2020	ND	620	1200
	Annual Mean	<620						
	Annual Max	<620						
	Dibromomethane	EPA 8260B	µg/kg		Plant 1 Dewatering Cake	04/22/2020	ND	90
				Annual Mean		<90		
Annual Max				<90				
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020		ND	440	890
				07/28/2020		ND	460	910
				11/03/2020		ND	780	1600
Annual Mean		<780						
Annual Max		<780						
EPA 8260B		µg/kg		Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
			Annual Mean		<1.6			
	Annual Max		<1.6					
	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020		ND	520	1000	
			07/21/2020		ND	280	550	
			11/03/2020		ND	620	1200	
Annual Mean	<620							
Annual Max	<620							
Dichlorodifluoromethane	EPA 8260B		µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
		Annual Mean			<180			
		Annual Max			<180			
		µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	890
			07/28/2020			ND	910	2300
			11/03/2020			ND	1600	3900
			Annual Mean			<1600		
		Annual Max	<1600					
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020		ND	3.2	8.1
				Annual Mean		<3.2		
				Annual Max		<3.2		
		µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
					07/21/2020	ND	550	1400
					11/03/2020	ND	1200	3100
Annual Mean	<1200							
Annual Max	<1200							
Ethylbenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake		04/22/2020	ND	90	180
				Annual Mean	<90			
				Annual Max	<90			
				µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440
		07/28/2020				ND	460	910
		11/03/2020				ND	780	1600
		Annual Mean				<780		
		Annual Max		<780				
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020		11	1.6	3.2
				Annual Mean		11		
				Annual Max		11		
		µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
					07/21/2020	ND	280	550
					11/03/2020	ND	620	1200
Annual Mean	<620							
Annual Max	<620							

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Hexachlorobutadiene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
	Annual Mean	<1600					
		Annual Max	<1600				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
	Annual Mean				<1.6		
	Annual Max				<1.6		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
Annual Max	<1200						
Isobutyl alcohol	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	4500	9000
				Annual Mean	<4500		
				Annual Max	<4500		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	22000	44000
				07/28/2020	ND	23000	46000
				11/03/2020	ND	39000	78000
	Annual Mean	<39000					
	Annual Max	<39000					
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	40	81
				Annual Mean	<40		
				Annual Max	<40		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	26000	52000
				07/21/2020	ND	14000	28000
				11/03/2020	ND	31000	62000
Annual Mean	<31000						
Annual Max	<31000						
Isopropylbenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
	Annual Max	<780					
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	1.9 DNQ	1.6	3.2
				Annual Mean	1.9 DNQ		
				Annual Max	1.9 DNQ		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
Annual Max	<620						
m,p-Xylenes	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	360
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	1800
				07/28/2020	ND	910	1800
				11/03/2020	ND	1600	3100
		Annual Mean	<1600				
		Annual Max	<1600				

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	44	3.2	6.5	
				Annual Mean	44			
				Annual Max	44			
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2100	
				07/21/2020	ND	550	1100	
				11/03/2020	ND	1200	2500	
	Annual Mean			<1200				
	Annual Max	<1200						
	Methyl ethyl ketone	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	900	1800
					Annual Mean	<900		
Annual Max					<900			
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	4400	8900	
				07/28/2020	ND	4600	9100	
				11/03/2020	ND	7800	16000	
		Annual Mean		<7800				
Annual Max		<7800						
EPA 8260B		µg/kg	Plant 2 Dewatering Cake	04/22/2020	720	12	25	
				Annual Mean	720			
	Annual Max			720				
	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	5200	10000		
			07/21/2020	ND	2800	5500		
			11/03/2020	ND	6200	12000		
Annual Mean	<6200							
Annual Max	<6200							
Methylene Chloride	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	900	1800	
				Annual Mean	<900			
				Annual Max	<900			
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	4400	8900	
				07/28/2020	ND	4600	9100	
				11/03/2020	ND	7800	16000	
	Annual Mean			<7800				
	Annual Max	<7800						
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	8.1	32	
				Annual Mean	<8.1			
Annual Max				<8.1				
µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	5200	10000		
			07/21/2020	ND	2800	5500		
			11/03/2020	ND	6200	12000		
Annual Mean	<6200							
Annual Max	<6200							
MIBK	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	360	900	
				Annual Mean	<360			
				Annual Max	<360			
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1800	4400	
				07/28/2020	ND	1800	4600	
				11/03/2020	ND	3100	7800	
	Annual Mean			<3100				
	Annual Max	<3100						
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	4.0	8.1	
				Annual Mean	<4.0			
Annual Max				<4.0				
µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	2100	5200		
			07/21/2020	ND	1100	2800		
			11/03/2020	ND	2500	6200		
Annual Mean	<2500							
Annual Max	<2500							

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Naphthalene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
	Annual Mean	<1600					
		Annual Max	<1600				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	19	3.2
	Annual Mean				19		
	Annual Max				19		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
	Annual Max	<1200					
	n-Butylbenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180
Annual Mean					<180		
Annual Max					<180		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
Annual Mean		<1600					
		Annual Max	<1600				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	17	1.6
Annual Mean					17		
Annual Max					17		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean	<1200						
	Annual Max	<1200					
	n-Propylbenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
Annual Mean					<90		
Annual Max					<90		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
Annual Mean		<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	14	1.6
Annual Mean					14		
Annual Max					14		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
o-Xylene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean	<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	23	1.6
	Annual Mean				23		
	Annual Max				23		
	µg/kg dry		Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					
	sec-Butylbenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
Annual Mean					<90		
Annual Max					<90		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	2200
				07/28/2020	ND	460	2300
				11/03/2020	ND	780	3900
Annual Mean		<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	3.4 DNQ	1.6
Annual Mean					3.4 DNQ		
Annual Max					3.4 DNQ		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	520	2600
				07/21/2020	ND	280	1400
				11/03/2020	ND	620	3100
Annual Mean	<620						
	Annual Max	<620					
	Styrene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
Annual Mean					<90		
Annual Max					<90		
µg/kg dry			Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
Annual Mean		<780					
		Annual Max	<780				
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
Annual Mean					<1.6		
Annual Max					<1.6		
µg/kg dry			Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean	<620						
	Annual Max	<620					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
tert-Butylbenzene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
	Annual Mean			<1600			
		Annual Max			<1600		
	EPA 8260B		µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
		Annual Mean			<1.6		
		Annual Max			<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
11/03/2020				ND	1200	3100	
Annual Mean			<1200				
	Annual Max			<1200			
Tetrachloroethene		EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
	Annual Mean				<90		
	Annual Max				<90		
	µg/kg dry		Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean			<780			
		Annual Max			<780		
	EPA 8260B		µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6
		Annual Mean			<1.6		
		Annual Max			<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
11/03/2020				ND	620	1200	
Annual Mean			<620				
	Annual Max			<620			
Toluene		EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90
	Annual Mean				<90		
	Annual Max				<90		
	µg/kg dry		Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean			<780			
		Annual Max			<780		
	EPA 8260B		µg/kg	Plant 2 Dewatering Cake	04/22/2020	21	1.6
		Annual Mean			21		
		Annual Max			21		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
11/03/2020				ND	620	1200	
Annual Mean			<620				
	Annual Max			<620			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
trans-1,2-Dichloroethene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean			<780			
	Annual Max			<780			
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean				<620			
Annual Max				<620			
trans-1,3-Dichloropropene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean			<780			
	Annual Max			<780			
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean				<620			
Annual Max				<620			
Trichloroethene	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	90	180
				Annual Mean	<90		
				Annual Max	<90		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	440	890
				07/28/2020	ND	460	910
				11/03/2020	ND	780	1600
	Annual Mean			<780			
	Annual Max			<780			
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	3.2
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	520	1000
				07/21/2020	ND	280	550
				11/03/2020	ND	620	1200
Annual Mean				<620			
Annual Max				<620			



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Trichlorofluoromethane	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
	Annual Mean			<1600			
	Annual Max			<1600			
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	8.1
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean				<1200			
Annual Max				<1200			
Vinyl chloride	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	04/22/2020	ND	180	450
				Annual Mean	<180		
				Annual Max	<180		
		µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	890	2200
				07/28/2020	ND	910	2300
				11/03/2020	ND	1600	3900
	Annual Mean			<1600			
	Annual Max			<1600			
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	04/22/2020	ND	1.6	8.1
				Annual Mean	<1.6		
				Annual Max	<1.6		
		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1000	2600
				07/21/2020	ND	550	1400
				11/03/2020	ND	1200	3100
Annual Mean				<1200			
Annual Max				<1200			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
<b>Semi-Volatile Organic Compounds</b>										
1,2,4-Trichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100			
				04/21/2020	ND	3900	9800			
				07/21/2020	ND	6400	16000			
				10/20/2020	ND	8200	20000			
				Annual Mean	<8200					
				Annual Max	<8200					
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3000	7400
							04/21/2020	ND	4100	10000
							07/21/2020	ND	5700	14000
							10/20/2020	ND	7300	18000
	Annual Mean	<7300								
	Annual Max	<7300								
	1,2-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100		
					04/21/2020	ND	2000	9800		
07/21/2020					ND	3300	16000			
10/20/2020					ND	4300	20000			
Annual Mean					<4300					
Annual Max					<4300					
EPA 8270C					µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
							04/21/2020	ND	2100	10000
							07/21/2020	ND	3000	14000
							10/20/2020	ND	3800	18000
		Annual Mean	<3800							
		Annual Max	<3800							
1,3-Dichlorobenzene		EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100		
					04/21/2020	ND	3900	9800		
	07/21/2020				ND	6400	16000			
	10/20/2020				ND	8200	20000			
	Annual Mean				<8200					
	Annual Max				<8200					
	EPA 8270C				µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3000	7400
							04/21/2020	ND	4100	10000
							07/21/2020	ND	5700	14000
							10/20/2020	ND	7300	18000
		Annual Mean	<7300							
		Annual Max	<7300							
	1,4-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100		
					04/21/2020	ND	3900	9800		
07/21/2020					ND	6400	16000			
10/20/2020					ND	8200	20000			
Annual Mean					<8200					
Annual Max					<8200					
EPA 8270C					µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3000	7400
							04/21/2020	ND	4100	10000
							07/21/2020	ND	5700	14000
							10/20/2020	ND	7300	18000
		Annual Mean	<7300							
		Annual Max	<7300							
2,4,5-Trichlorophenol		EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	6500	16000		
					04/21/2020	ND	7900	20000		
	07/21/2020				ND	13000	32000			
	10/20/2020				ND	16000	41000			
	Annual Mean				<16000					
	Annual Max				<16000					
	EPA 8270C				µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	5900	15000
							04/21/2020	ND	8200	21000
							07/21/2020	ND	11000	28000

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				10/20/2020	ND	15000	37000
				Annual Mean	<15000		
				Annual Max	<15000		
2,4,6-Trichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	5200	16000
				04/21/2020	ND	6300	20000
				07/21/2020	ND	10000	32000
				10/20/2020	ND	13000	41000
				Annual Mean	<13000		
	Annual Max	<13000					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	4700	15000
				04/21/2020	ND	6600	21000
				07/21/2020	ND	9100	28000
				10/20/2020	ND	12000	37000
Annual Mean				<12000			
Annual Max	<12000						
2,4-Dichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1600	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3200	16000
				10/20/2020	ND	4100	20000
				Annual Mean	<4100		
	Annual Max	<4100					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	2800	14000
				10/20/2020	ND	3700	18000
Annual Mean				<3700			
Annual Max	<3700						
2,4-Dimethylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100
				04/21/2020	ND	3900	9800
				07/21/2020	ND	6200	16000
				10/20/2020	ND	8000	20000
				Annual Mean	<8000		
	Annual Max	<8000					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	2900	7400
				04/21/2020	ND	4000	10000
				07/21/2020	ND	5600	14000
				10/20/2020	ND	7200	18000
Annual Mean				<7200			
Annual Max	<7200						
2,4-Dinitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	24000	32000
				04/21/2020	ND	30000	39000
				07/21/2020	ND	48000	64000
				10/20/2020	ND	61000	82000
				Annual Mean	<61000		
	Annual Max	<61000					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	22000	30000
				04/21/2020	ND	31000	41000
				07/21/2020	ND	43000	57000
				10/20/2020	ND	55000	73000
Annual Mean				<55000			
Annual Max	<55000						
2,4-Dinitrotoluene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1900	8100
				04/21/2020	ND	2400	9800
				07/21/2020	ND	3800	16000
				10/20/2020	ND	4900	20000
				Annual Mean	<4900		
				Annual Max	<4900		

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1800	7400
				04/21/2020	ND	2500	10000
				07/21/2020	ND	3400	14000
				10/20/2020	ND	4400	18000
				Annual Mean	<4400		
				Annual Max	<4400		
2,6-Dinitrotoluene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	2300	8100
				04/21/2020	ND	2800	9800
				07/21/2020	ND	4500	16000
				10/20/2020	ND	5800	20000
				Annual Mean	<5800		
				Annual Max	<5800		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	2100	7400
				04/21/2020	ND	2900	10000
				07/21/2020	ND	4000	14000
				10/20/2020	ND	5200	18000
Annual Mean	<5200						
Annual Max	<5200						
2-Chloronaphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1600	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3200	16000
				10/20/2020	ND	4100	20000
				Annual Mean	<4100		
				Annual Max	<4100		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	2800	14000
				10/20/2020	ND	3700	18000
Annual Mean	<3700						
Annual Max	<3700						
2-Chlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean	<3800						
Annual Max	<3800						
2-Methylnaphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean	<3800						
Annual Max	<3800						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
2-Methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1900	8100	
				04/21/2020	ND	2400	9800	
				07/21/2020	ND	3800	16000	
				10/20/2020	ND	4900	20000	
				Annual Mean	<4900			
				Annual Max	<4900			
				01/21/2020	ND	1800	7400	
	04/21/2020	ND	2500	10000				
	07/21/2020	ND	3400	14000				
	10/20/2020	ND	4400	18000				
	Annual Mean	<4400						
	Annual Max	<4400						
	2-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	5500	8100
					04/21/2020	ND	6700	9800
07/21/2020					ND	11000	16000	
10/20/2020					ND	14000	20000	
Annual Mean					<14000			
Annual Max					<14000			
01/21/2020					ND	5000	7400	
04/21/2020		ND	7000	10000				
07/21/2020		ND	9700	14000				
10/20/2020		ND	12000	18000				
Annual Mean		<12000						
Annual Max		<12000						
2-Nitrophenol		EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100
					04/21/2020	ND	3900	9800
	07/21/2020				ND	6400	16000	
	10/20/2020				ND	8200	20000	
	Annual Mean				<8200			
	Annual Max				<8200			
	01/21/2020				ND	3000	7400	
	04/21/2020	ND	4100	10000				
	07/21/2020	ND	5700	14000				
	10/20/2020	ND	7300	18000				
	Annual Mean	<7300						
	Annual Max	<7300						
	3,3-Dichlorobenzidine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3600	16000
					04/21/2020	ND	4300	20000
07/21/2020					ND	7000	32000	
10/20/2020					ND	9000	41000	
Annual Mean					<9000			
Annual Max					<9000			
01/21/2020					ND	3300	15000	
04/21/2020		ND	4500	21000				
07/21/2020		ND	6300	28000				
10/20/2020		ND	8000	37000				
Annual Mean		<8000						
Annual Max		<8000						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
3-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100	
				04/21/2020	ND	3900	9800	
				07/21/2020	ND	6400	16000	
				10/20/2020	ND	8200	20000	
				Annual Mean	<8200			
				Annual Max	<8200			
				01/21/2020	ND	3000	7400	
	04/21/2020	ND	4100	10000				
	07/21/2020	ND	5700	14000				
	10/20/2020	ND	7300	18000				
	Annual Mean	<7300						
	Annual Max	<7300						
	4,6-Dinitro-2-methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	16000
					04/21/2020	ND	3900	20000
07/21/2020					ND	6400	32000	
10/20/2020					ND	8200	41000	
Annual Mean					<8200			
Annual Max					<8200			
01/21/2020					ND	3000	15000	
04/21/2020		ND	4100	21000				
07/21/2020		ND	5700	28000				
10/20/2020		ND	7300	37000				
Annual Mean		<7300						
Annual Max		<7300						
4-Bromophenyl phenyl ether		EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1800	8100
					04/21/2020	ND	2200	9800
	07/21/2020				ND	3600	16000	
	10/20/2020				ND	4600	20000	
	Annual Mean				<4600			
	Annual Max				<4600			
	01/21/2020				ND	1700	7400	
	04/21/2020	ND	2300	10000				
	07/21/2020	ND	3200	14000				
	10/20/2020	ND	4100	18000				
	Annual Mean	<4100						
	Annual Max	<4100						
	4-Chloro-3-methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	4900	13000
					04/21/2020	ND	5900	16000
07/21/2020					ND	9500	25000	
10/20/2020					ND	12000	33000	
Annual Mean					<12000			
Annual Max					<12000			
01/21/2020					ND	4400	12000	
04/21/2020		ND	6200	16000				
07/21/2020		ND	8500	23000				
10/20/2020		ND	11000	29000				
Annual Mean		<11000						
Annual Max		<11000						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
4-Chloroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	4900	16000	
				04/21/2020	ND	5900	20000	
				07/21/2020	ND	9500	32000	
				10/20/2020	ND	12000	41000	
				Annual Mean	<12000			
				Annual Max	<12000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	4400	15000	
				04/21/2020	ND	6200	21000	
				07/21/2020	ND	8500	28000	
				10/20/2020	ND	11000	37000	
				Annual Mean	<11000			
				Annual Max	<11000			
	4-Chlorophenyl phenyl ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	6500	16000
					04/21/2020	ND	7900	20000
07/21/2020					ND	13000	32000	
10/20/2020					ND	16000	41000	
Annual Mean					<16000			
Annual Max					<16000			
EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	5900	15000	
				04/21/2020	ND	8200	21000	
				07/21/2020	ND	11000	28000	
				10/20/2020	ND	15000	37000	
				Annual Mean	<15000			
				Annual Max	<15000			
4-Methylphenol		EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	290000	8100	20000
					04/21/2020	ND	3900	9800
	07/21/2020				6800 DNQ	6400	16000	
	10/20/2020				47000	8200	20000	
	Annual Mean				87000 DNQ			
	Annual Max				47000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3000	7400	
				04/21/2020	ND	4100	10000	
				07/21/2020	ND	5700	14000	
				10/20/2020	ND	7300	18000	
				Annual Mean	<7300			
				Annual Max	<7300			
	4-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	16000
					04/21/2020	ND	3900	20000
07/21/2020					ND	6400	32000	
10/20/2020					ND	8200	41000	
Annual Mean					<8200			
Annual Max					<8200			
EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3000	15000	
				04/21/2020	ND	4100	21000	
				07/21/2020	ND	5700	28000	
				10/20/2020	ND	7300	37000	
				Annual Mean	<7300			
				Annual Max	<7300			



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
4-Nitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	16000	32000	
				04/21/2020	ND	20000	39000	
				07/21/2020	ND	32000	64000	
				10/20/2020	ND	41000	82000	
				Annual Mean	<41000			
				Annual Max	<41000			
				01/21/2020	ND	15000	30000	
	04/21/2020	ND	21000	41000				
	07/21/2020	ND	28000	57000				
	10/20/2020	ND	37000	73000				
	Annual Mean	<37000						
	Annual Max	<37000						
	Acenaphthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	4200	8100
					04/21/2020	ND	5100	9800
07/21/2020					ND	8300	16000	
10/20/2020					ND	11000	20000	
Annual Mean					<11000			
Annual Max					<11000			
01/21/2020					ND	3800	7400	
04/21/2020		ND	5300	10000				
07/21/2020		ND	7400	14000				
10/20/2020		ND	9500	18000				
Annual Mean		<9500						
Annual Max		<9500						
Acenaphthylene		EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
					04/21/2020	ND	2000	9800
	07/21/2020				ND	3300	16000	
	10/20/2020				ND	4300	20000	
	Annual Mean				<4300			
	Annual Max				<4300			
	01/21/2020				ND	1500	7400	
	04/21/2020	ND	2100	10000				
	07/21/2020	ND	3000	14000				
	10/20/2020	ND	3800	18000				
	Annual Mean	<3800						
	Annual Max	<3800						
	Aniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	4500	16000
					04/21/2020	ND	5500	20000
07/21/2020					ND	8900	32000	
10/20/2020					ND	11000	41000	
Annual Mean					<11000			
Annual Max					<11000			
01/21/2020					ND	4100	15000	
04/21/2020		ND	5700	21000				
07/21/2020		ND	8000	28000				
10/20/2020		ND	10000	37000				
Annual Mean		<10000						
Annual Max		<10000						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1900	8100
				04/21/2020	ND	2400	9800
				07/21/2020	ND	3800	16000
				10/20/2020	ND	4900	20000
				Annual Mean	<4900		
				Annual Max	<4900		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1800	7400
				04/21/2020	ND	2500	10000
				07/21/2020	ND	3400	14000
				10/20/2020	ND	4400	18000
Annual Mean				<4400			
Annual Max				<4400			
Azobenzene/1,2-Diphenylhydrazine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max				<3800			
Benz(a)anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max				<3800			
Benzidine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	5500	42000
				04/21/2020	ND	6700	51000
				10/20/2020	ND	14000	110000
				Annual Mean	<14000		
				Annual Max	<14000		
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020
	04/21/2020	ND	7000				53000
	10/20/2020	ND	12000				95000
	Annual Mean	<12000					
	Annual Max	<12000					
Benzo(a)pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake				01/21/2020
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3200	16000
				10/20/2020	ND	4100	20000
				Annual Mean	<4100		
				Annual Max	<4100		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	2800	14000
				10/20/2020	ND	3700	18000
Annual Mean				<3700			
Annual Max				<3700			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Benzo(b)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max				<3800			
Benzo(g,h,i)perylene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	2700	8100
				04/21/2020	ND	3200	9800
				07/21/2020	ND	5200	16000
				10/20/2020	ND	6700	20000
				Annual Mean	<6700		
				Annual Max	<6700		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	2400	7400
				04/21/2020	ND	3400	10000
				07/21/2020	ND	4700	14000
				10/20/2020	ND	6000	18000
Annual Mean				<6000			
Annual Max				<6000			
Benzo(k)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max				<3800			
Benzoic acid	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	12000	24000
				04/21/2020	25000 DNQ	14000	30000
				07/21/2020	ND	23000	48000
				10/20/2020	ND	29000	61000
				Annual Mean	22000 DNQ		
				Annual Max	25000 DNQ		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	11000	22000
				04/21/2020	ND	15000	31000
				07/21/2020	ND	20000	43000
				10/20/2020	ND	26000	55000
Annual Mean				<26000			
Annual Max				<26000			
Benzyl alcohol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	13000	42000
				04/21/2020	ND	16000	51000
				07/21/2020	ND	26000	83000
				10/20/2020	ND	34000	110000
				Annual Mean	<34000		
				Annual Max	<34000		

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	12000	38000
				04/21/2020	ND	17000	53000
				07/21/2020	ND	23000	74000
				10/20/2020	ND	30000	95000
				Annual Mean	<30000		
				Annual Max	<30000		
Bis(2-chloroethoxy)methane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100
				04/21/2020	ND	3900	9800
				07/21/2020	ND	6400	16000
				10/20/2020	ND	8200	20000
				Annual Mean	<8200		
	Annual Max	<8200					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3000	7400
				04/21/2020	ND	4100	10000
				07/21/2020	ND	5700	14000
				10/20/2020	ND	7300	18000
Annual Mean				<7300			
Annual Max	<7300						
Bis(2-chloroethyl)ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	4200 DNQ	1700	8100
				04/21/2020	3600 DNQ	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	3800 DNQ		
	Annual Max	4200 DNQ					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max	<3800						
Bis(2-chloroisopropyl)ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100
				04/21/2020	ND	3900	9800
				07/21/2020	ND	6400	16000
				10/20/2020	ND	8200	20000
				Annual Mean	<8200		
	Annual Max	<8200					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3000	7400
				04/21/2020	ND	4100	10000
				07/21/2020	ND	5700	14000
				10/20/2020	ND	7300	18000
Annual Mean				<7300			
Annual Max	<7300						
Bis(2-ethylhexyl)phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	30000	2200	8100
				04/21/2020	45000	2700	9800
				07/21/2020	29000	4300	16000
				10/20/2020	37000	5600	20000
				Annual Mean	35000		
	Annual Max	45000					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	30000	2000	7400
				04/21/2020	61000	2800	10000
				07/21/2020	28000	3900	14000
				10/20/2020	48000	5000	18000
Annual Mean				42000			
Annual Max	61000						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Butyl benzyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1900	8100
				04/21/2020	ND	2400	9800
				07/21/2020	ND	3800	16000
				10/20/2020	ND	4900	20000
				Annual Mean	<4900		
				Annual Max	<4900		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1800	7400
				04/21/2020	ND	2500	10000
				07/21/2020	ND	3400	14000
				10/20/2020	ND	4400	18000
Annual Mean				<4400			
Annual Max				<4400			
Chrysene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1800	8100
				04/21/2020	ND	2200	9800
				07/21/2020	ND	3600	16000
				10/20/2020	ND	4600	20000
				Annual Mean	<4600		
				Annual Max	<4600		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1700	7400
				04/21/2020	ND	2300	10000
				07/21/2020	ND	3200	14000
				10/20/2020	ND	4100	18000
Annual Mean				<4100			
Annual Max				<4100			
Dibenz(a,h)anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	2400	8100
				04/21/2020	ND	3000	9800
				07/21/2020	ND	4800	16000
				10/20/2020	ND	6100	20000
				Annual Mean	<6100		
				Annual Max	<6100		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	2200	7400
				04/21/2020	ND	3100	10000
				07/21/2020	ND	4300	14000
				10/20/2020	ND	5500	18000
Annual Mean				<5500			
Annual Max				<5500			
Dibenzofuran	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	4500	8100
				04/21/2020	ND	5500	9800
				07/21/2020	ND	8900	16000
				10/20/2020	ND	11000	20000
				Annual Mean	<11000		
				Annual Max	<11000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	4100	7400
				04/21/2020	ND	5700	10000
				07/21/2020	ND	8000	14000
				10/20/2020	ND	10000	18000
Annual Mean				<10000			
Annual Max				<10000			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
Diethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	2300	8100	
				04/21/2020	ND	2800	9800	
				07/21/2020	ND	4500	16000	
				10/20/2020	ND	5800	20000	
				Annual Mean	<5800			
				Annual Max	<5800			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	2100	7400	
				04/21/2020	ND	2900	10000	
				07/21/2020	ND	4000	14000	
				10/20/2020	ND	5200	18000	
				Annual Mean	<5200			
				Annual Max	<5200			
	Dimethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1600	8100
					04/21/2020	ND	2000	9800
07/21/2020					ND	3200	16000	
10/20/2020					ND	4100	20000	
Annual Mean					<4100			
Annual Max					<4100			
EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400	
				04/21/2020	ND	2100	10000	
				07/21/2020	ND	2800	14000	
				10/20/2020	ND	3700	18000	
				Annual Mean	<3700			
				Annual Max	<3700			
Di-n-butyl phthalate		EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	2200	8100
					04/21/2020	ND	2700	9800
	07/21/2020				ND	4300	16000	
	10/20/2020				ND	5600	20000	
	Annual Mean				<5600			
	Annual Max				<5600			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	2000	7400	
				04/21/2020	ND	2800	10000	
				07/21/2020	ND	3900	14000	
				10/20/2020	ND	5000	18000	
				Annual Mean	<5000			
				Annual Max	<5000			
	Di-n-octyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	2200	8100
					04/21/2020	ND	2700	9800
07/21/2020					ND	4300	16000	
10/20/2020					ND	5600	20000	
Annual Mean					<5600			
Annual Max					<5600			
EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	2000	7400	
				04/21/2020	ND	2800	10000	
				07/21/2020	ND	3900	14000	
				10/20/2020	ND	5000	18000	
				Annual Mean	<5000			
				Annual Max	<5000			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	5200	11000
				04/21/2020	ND	6300	13000
				07/21/2020	ND	10000	21000
				10/20/2020	ND	13000	27000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	4700	9800
				04/21/2020	ND	6600	14000
				07/21/2020	ND	9100	19000
				10/20/2020	ND	12000	24000
Annual Mean				<12000			
Annual Max				<12000			
Fluorene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max				<3800			
Hexachlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max				<3800			
Hexachlorobutadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100
				04/21/2020	ND	3900	9800
				07/21/2020	ND	6400	16000
				10/20/2020	ND	8200	20000
				Annual Mean	<8200		
				Annual Max	<8200		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3000	7400
				04/21/2020	ND	4100	10000
				07/21/2020	ND	5700	14000
				10/20/2020	ND	7300	18000
Annual Mean				<7300			
Annual Max				<7300			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
Hexachlorocyclopentadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	10000	24000				
				04/21/2020	ND	12000	30000				
				07/21/2020	ND	20000	48000				
				10/20/2020	ND	25000	61000				
				Annual Mean	<25000						
				Annual Max	<25000						
				01/21/2020	ND	9200	22000				
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	04/21/2020	ND	13000	31000				
				07/21/2020	ND	18000	43000				
				10/20/2020	ND	23000	55000				
				Annual Mean	<23000						
				Annual Max	<23000						
				Hexachloroethane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	2300	8100
								04/21/2020	ND	2800	9800
07/21/2020	ND	4400	16000								
10/20/2020	ND	5700	20000								
Annual Mean	<5700										
Annual Max	<5700										
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020					ND	2100	7400	
			04/21/2020		ND	2900	10000				
			07/21/2020		ND	4000	14000				
			10/20/2020		ND	5100	18000				
			Annual Mean		<5100						
			Annual Max		<5100						
			Indeno(1,2,3-cd)pyrene		EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100
04/21/2020	ND	3900						9800			
07/21/2020	ND	6200		16000							
10/20/2020	ND	8000		20000							
Annual Mean	<8000										
Annual Max	<8000										
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake		01/21/2020				ND	2900	7400	
				04/21/2020	ND	4000	10000				
				07/21/2020	ND	5600	14000				
				10/20/2020	ND	7200	18000				
				Annual Mean	<7200						
				Annual Max	<7200						
				Isophorone	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1600	8100
04/21/2020	ND	2000						9800			
07/21/2020	ND	3200	16000								
10/20/2020	ND	4100	20000								
Annual Mean	<4100										
Annual Max	<4100										
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020					ND	1500	7400	
			04/21/2020		ND	2100	10000				
			07/21/2020		ND	2800	14000				
			10/20/2020		ND	3700	18000				
			Annual Mean		<3700						
			Annual Max		<3700						



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Kepone	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	24000	130000
				04/21/2020	ND	30000	160000
				07/21/2020	ND	48000	250000
				10/20/2020	ND	61000	330000
				Annual Mean	<61000		
				Annual Max	<61000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	22000	120000
				04/21/2020	ND	31000	160000
				07/21/2020	ND	43000	230000
				10/20/2020	ND	55000	290000
Annual Mean				<55000			
Annual Max				<55000			
Naphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1600	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3200	16000
				10/20/2020	ND	4100	20000
				Annual Mean	<4100		
				Annual Max	<4100		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	2800	14000
				10/20/2020	ND	3700	18000
Annual Mean				<3700			
Annual Max				<3700			
Nitrobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max				<3800			
N-Nitrosodimethylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max				<3800			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
N-Nitroso-di-n-propylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1700	8100
				04/21/2020	ND	2000	9800
				07/21/2020	ND	3300	16000
				10/20/2020	ND	4300	20000
				Annual Mean	<4300		
				Annual Max	<4300		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1500	7400
				04/21/2020	ND	2100	10000
				07/21/2020	ND	3000	14000
				10/20/2020	ND	3800	18000
Annual Mean				<3800			
Annual Max				<3800			
N-Nitrosodiphenylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	5200	16000
				04/21/2020	ND	6300	20000
				07/21/2020	ND	10000	32000
				10/20/2020	ND	13000	41000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	4700	15000
				04/21/2020	ND	6600	21000
				07/21/2020	ND	9100	28000
				10/20/2020	ND	12000	37000
Annual Mean				<12000			
Annual Max				<12000			
Pentachlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	8400	16000
				04/21/2020	ND	10000	20000
				07/21/2020	ND	17000	32000
				10/20/2020	ND	21000	41000
				Annual Mean	<21000		
				Annual Max	<21000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	7700	15000
				04/21/2020	ND	11000	21000
				07/21/2020	ND	15000	28000
				10/20/2020	ND	19000	37000
Annual Mean				<19000			
Annual Max				<19000			
Phenanthrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	4900	11000
				04/21/2020	ND	5900	13000
				07/21/2020	ND	9500	21000
				10/20/2020	ND	12000	27000
				Annual Mean	<12000		
				Annual Max	<12000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	4400	9800
				04/21/2020	ND	6200	14000
				07/21/2020	ND	8500	19000
				10/20/2020	ND	11000	24000
Annual Mean				<11000			
Annual Max				<11000			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Phenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	11000	2200	8100
				04/21/2020	16000	2700	9800
				07/21/2020	20000	4300	16000
				10/20/2020	190000	5600	20000
				Annual Mean	59000		
				Annual Max	190000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	2000	7400
				04/21/2020	6200 DNQ	2800	10000
				07/21/2020	ND	3900	14000
				10/20/2020	68000	5000	18000
				Annual Mean	20000 DNQ		
				Annual Max	68000		
Pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3200	8100
				04/21/2020	ND	3900	9800
				07/21/2020	ND	6400	16000
				10/20/2020	ND	8200	20000
				Annual Mean	<8200		
				Annual Max	<8200		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3000	7400
				04/21/2020	ND	4100	10000
				07/21/2020	ND	5700	14000
				10/20/2020	ND	7300	18000
				Annual Mean	<7300		
				Annual Max	<7300		
Pyridine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	3600	11000
				04/21/2020	ND	4300	13000
				07/21/2020	ND	7000	22000
				10/20/2020	ND	9000	28000
				Annual Mean	<9000		
				Annual Max	<9000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	3300	10000
				04/21/2020	ND	4500	14000
				07/21/2020	ND	6300	19000
				10/20/2020	ND	8000	25000
				Annual Mean	<8000		
				Annual Max	<8000		
Total Cresols	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	10/20/2020	47000	--	--
				Annual Mean	47000		
				Annual Max	47000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	10/20/2020	ND	--	--
				Annual Mean	0		
				Annual Max	0		

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
<b>Organochlorine Pesticides</b>							
Aldrin	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	200	1300
				01/28/2020	ND	130	430
				04/21/2020	ND	7.3	24
				07/21/2020	ND	120	400
				Annual Mean	<200		
		Annual Max	<200				
		mg/kg dry weight	Plant 1 Dewatering Cake	11/17/2020	ND	0.71	2.0
				Annual Mean	<0.71		
				Annual Max	<0.71		
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	170
	01/28/2020				ND	120	400
	04/21/2020				ND	7.6	25
	07/21/2020				ND	53	180
	Annual Mean				<170		
Annual Max	<170						
mg/kg dry weight	Plant 2 Dewatering Cake		11/17/2020	ND	0.62	1.7	
			Annual Mean	<0.62			
		Annual Max	<0.62				
alpha-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	170	1300
				01/28/2020	ND	130	430
				04/21/2020	ND	7.3	24
				07/21/2020	ND	120	400
				Annual Mean	<170		
		Annual Max	<170				
		mg/kg dry weight	Plant 1 Dewatering Cake	11/17/2020	ND	0.75	2.0
				Annual Mean	<0.75		
				Annual Max	<0.75		
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	150
	01/28/2020				ND	120	400
	04/21/2020				ND	7.6	25
	07/21/2020				ND	53	180
	Annual Mean				<150		
Annual Max	<150						
mg/kg dry weight	Plant 2 Dewatering Cake		11/17/2020	ND	0.65	1.7	
			Annual Mean	<0.65			
		Annual Max	<0.65				

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
beta-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	520	1300
				01/28/2020	ND	130	430
				04/21/2020	ND	7.3	24
				07/21/2020	ND	120	400
				Annual Mean	<520		
				Annual Max	<520		
				11/17/2020	ND	1.0	2.0
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	450	1200
				01/28/2020	ND	120	400
				04/21/2020	ND	7.6	25
				07/21/2020	ND	53	180
				Annual Mean	<450		
				Annual Max	<450		
				11/17/2020	ND	0.89	1.7
Chlordane	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	6100	19000
				01/28/2020	ND	1300	4300
				04/21/2020	ND	73	240
				07/21/2020	ND	1200	4000
				Annual Mean	<6100		
				Annual Max	<6100		
				11/17/2020	ND	7.5	20
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	5300	17000
				01/28/2020	ND	1200	4000
				04/21/2020	ND	76	250
				07/21/2020	ND	530	1800
				Annual Mean	<5300		
				Annual Max	<5300		
				11/17/2020	ND	6.5	17
delta-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	310	1300
				01/28/2020	ND	130	860
				04/21/2020	ND	7.3	49
				07/21/2020	ND	120	800
				Annual Mean	<310		
				Annual Max	<310		
				11/17/2020	ND	0.91	2.0
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	270	1200
				01/28/2020	ND	120	800
				04/21/2020	ND	7.6	51
				07/21/2020	ND	53	360
				Annual Mean	<270		
				Annual Max	<270		
				11/17/2020	ND	0.79	1.7
EPA 8081A	mg/kg dry weight	Plant 1 Dewatering Cake	11/17/2020	ND	0.91	2.0	
			Annual Mean	<0.91			
EPA 8081A	mg/kg dry weight	Plant 2 Dewatering Cake	11/17/2020	ND	0.79	1.7	
			Annual Mean	<0.79			
EPA 8081A	mg/kg dry weight	Plant 2 Dewatering Cake	11/17/2020	ND	0.79	1.7	
			Annual Max	<0.79			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
Dieldrin	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	160	1300		
				01/28/2020	ND	130	430		
				04/21/2020	ND	7.3	24		
				07/21/2020	ND	120	400		
				Annual Mean	<160				
				Annual Max	<160				
				11/17/2020	ND	0.75	2.0		
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	140	1200		
				01/28/2020	ND	120	400		
				04/21/2020	ND	7.6	25		
				07/21/2020	ND	53	180		
				Annual Mean	<140				
				Annual Max	<140				
				11/17/2020	ND	0.65	1.7		
Endosulfan 1	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	140	1300		
				01/28/2020	ND	130	430		
				04/21/2020	ND	7.3	24		
				07/21/2020	ND	120	400		
				Annual Mean	<140				
				Annual Max	<140				
				11/17/2020	ND	0.67	2.0		
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	120	1200		
				01/28/2020	ND	120	400		
				04/21/2020	ND	7.6	25		
				07/21/2020	ND	53	180		
				Annual Mean	<120				
				Annual Max	<120				
				11/17/2020	ND	0.58	1.7		
Endosulfan 2	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	220	1300		
				01/28/2020	ND	130	430		
				04/21/2020	ND	7.3	24		
				07/21/2020	ND	120	400		
				Annual Mean	<220				
				Annual Max	<220				
				11/17/2020	ND	0.75	2.0		
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	200	1200		
				01/28/2020	ND	120	400		
				04/21/2020	ND	7.6	25		
				07/21/2020	ND	53	180		
				Annual Mean	<200				
				Annual Max	<200				
				11/17/2020	ND	0.65	1.7		
EPA 8081A	mg/kg dry weight	Plant 1 Dewatering Cake	11/17/2020	ND	0.75	2.0			
			Annual Mean	<0.75					
			Annual Max	<0.75					
			EPA 8081A	mg/kg dry weight	Plant 2 Dewatering Cake	11/17/2020	ND	0.65	1.7
						Annual Mean	<0.65		
						Annual Max	<0.65		

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
Endosulfan Sulfate	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	210	1300		
				01/28/2020	ND	170	860		
				04/21/2020	ND	9.7	49		
				07/21/2020	ND	160	800		
				Annual Mean	<210				
		Annual Max	<210						
		mg/kg dry weight	Plant 1 Dewatering Cake	11/17/2020	ND	0.83	2.0		
				Annual Mean	<0.83				
				Annual Max	<0.83				
				EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	190
	01/28/2020						ND	160	800
	04/21/2020	ND	10				51		
	07/21/2020	ND	71				360		
	Annual Mean	<190							
Annual Max	<190								
mg/kg dry weight	Plant 2 Dewatering Cake	11/17/2020	ND	0.72	1.7				
		Annual Mean	<0.72						
		Annual Max	<0.72						
		Endrin	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	240	1300
						01/28/2020	ND	130	430
						04/21/2020	ND	7.3	24
07/21/2020	ND					120	400		
Annual Mean	<240								
Annual Max	<240								
mg/kg dry weight	Plant 1 Dewatering Cake			11/17/2020	ND	0.71	2.0		
				Annual Mean	<0.71				
				Annual Max	<0.71				
				EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	210
			01/28/2020				ND	120	400
04/21/2020	ND		7.6				25		
07/21/2020	ND		53				180		
Annual Mean	<210								
Annual Max	<210								
mg/kg dry weight	Plant 2 Dewatering Cake	11/17/2020	ND	0.62	1.7				
		Annual Mean	<0.62						
		Annual Max	<0.62						
		Endrin Aldehyde	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	130	1300
						01/28/2020	ND	130	430
						04/21/2020	ND	7.3	24
07/21/2020	ND					120	400		
Annual Mean	<130								
Annual Max	<130								
mg/kg dry weight	Plant 1 Dewatering Cake			11/17/2020	ND	0.75	2.0		
				Annual Mean	<0.75				
				Annual Max	<0.75				
				EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	120
			01/28/2020				ND	120	400
04/21/2020	ND		7.6				25		
07/21/2020	ND		53				180		
Annual Mean	<120								
Annual Max	<120								
mg/kg dry weight	Plant 2 Dewatering Cake	11/17/2020	ND	0.65	1.7				
		Annual Mean	<0.65						
		Annual Max	<0.65						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
Endrin Ketone	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	160	1300		
				01/28/2020	ND	170	430		
				04/21/2020	ND	9.7	24		
				07/21/2020	ND	160	400		
				Annual Mean	<170				
				Annual Max	<170				
				01/21/2020	ND	140	1200		
	01/28/2020	ND	160	400					
	04/21/2020	ND	10	25					
	07/21/2020	ND	71	180					
	Annual Mean	<160							
	Annual Max	<160							
	gamma-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	150	1300	
					01/28/2020	ND	130	430	
04/21/2020					ND	7.3	24		
07/21/2020					ND	120	400		
Annual Mean					<150				
Annual Max					<150				
mg/kg dry weight					Plant 1 Dewatering Cake	11/17/2020	ND	0.79	2.0
						Annual Mean	<0.79		
						Annual Max	<0.79		
						01/21/2020	ND	130	1200
EPA 8081A		µg/kg dry	Plant 2 Dewatering Cake	01/28/2020	ND	120	400		
				04/21/2020	ND	7.6	25		
				07/21/2020	ND	53	180		
				Annual Mean	<130				
	Annual Max			<130					
	mg/kg dry weight			Plant 2 Dewatering Cake	11/17/2020	ND	0.68	1.7	
					Annual Mean	<0.68			
					Annual Max	<0.68			
					01/21/2020	ND	170	1300	
	Heptachlor			EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/28/2020	ND	170
04/21/2020		ND	9.7				24		
07/21/2020		ND	160				400		
Annual Mean		<170							
Annual Max		<170							
mg/kg dry weight		Plant 1 Dewatering Cake	11/17/2020				ND	0.95	2.0
			Annual Mean				<0.95		
			Annual Max	<0.95					
			01/21/2020	ND	150	1200			
EPA 8081A		µg/kg dry	Plant 2 Dewatering Cake	01/28/2020	ND	160	400		
				04/21/2020	ND	10	25		
				07/21/2020	ND	71	180		
				Annual Mean	<160				
				Annual Max	<160				
	mg/kg dry weight			Plant 2 Dewatering Cake	11/17/2020	ND	0.82	1.7	
					Annual Mean	<0.82			
					Annual Max	<0.82			



**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Heptachlor Epoxide	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	330	1300
				01/28/2020	ND	170	430
				04/21/2020	ND	9.7	24
				07/21/2020	ND	160	400
				Annual Mean	<330		
				Annual Max	<330		
				11/17/2020	ND	0.67	2.0
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	290	1200
				01/28/2020	ND	160	400
				04/21/2020	ND	10	25
				07/21/2020	ND	71	180
				Annual Mean	<290		
				Annual Max	<290		
				11/17/2020	ND	0.58	1.7
Kepone	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	19000	58000
				04/21/2020	ND	100000	290000
				Annual Mean	<100000		
				Annual Max	<100000		
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	17000	51000
				04/21/2020	ND	110000	300000
				Annual Mean	<110000		
Annual Max	<110000						
Methoxychlor	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	350	2600
				01/28/2020	ND	130	430
				04/21/2020	ND	7.3	24
				07/21/2020	ND	120	400
				Annual Mean	<350		
				Annual Max	<350		
				11/17/2020	ND	1.5	4.0
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	310	2300
				01/28/2020	ND	120	400
				04/21/2020	ND	7.6	25
				07/21/2020	ND	53	180
				Annual Mean	<310		
				Annual Max	<310		
				11/17/2020	ND	1.3	3.4
Mirex	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	210	1300
				04/21/2020	ND	1300	3300
				10/20/2020	ND	2700	6900
				Annual Mean	<2700		
				Annual Max	<2700		
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	180	1200
				04/21/2020	ND	1300	3400
				10/20/2020	ND	2400	6100
				Annual Mean	<2400		
Annual Max	<2400						

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
o,p'-DDD	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	280	1300			
				01/28/2020	ND	130	430			
				04/21/2020	ND	7.3	24			
				07/21/2020	ND	120	400			
				Annual Mean	<280					
				Annual Max	<280					
				01/21/2020	ND	250	1200			
	01/28/2020	ND	120	400						
	04/21/2020	ND	7.6	25						
	07/21/2020	ND	53	180						
	Annual Mean	<250								
	Annual Max	<250								
	o,p'-DDE	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	510	1300		
					01/28/2020	ND	130	430		
04/21/2020					ND	7.3	24			
07/21/2020					ND	120	400			
Annual Mean					<510					
Annual Max					<510					
01/21/2020					ND	440	1200			
01/28/2020		ND	120	400						
04/21/2020		ND	7.6	25						
07/21/2020		ND	53	180						
Annual Mean		<440								
Annual Max		<440								
o,p'-DDT		EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	410	1300		
					01/28/2020	ND	130	430		
	04/21/2020				ND	7.3	24			
	07/21/2020				ND	120	400			
	Annual Mean				<410					
	Annual Max				<410					
	01/21/2020				ND	360	1200			
	01/28/2020	ND	120	400						
	04/21/2020	ND	7.6	25						
	07/21/2020	ND	53	180						
	Annual Mean	<360								
	Annual Max	<360								
	p,p'-DDD	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	420	1300		
					01/28/2020	ND	130	430		
04/21/2020					ND	7.3	24			
07/21/2020					ND	120	400			
Annual Mean					<420					
Annual Max					<420					
mg/kg dry weight					Plant 1 Dewatering Cake	11/17/2020	ND	0.95	2.0	
						Annual Mean	<0.95			
EPA 8081A					µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	370	1200
							01/28/2020	ND	120	400
		04/21/2020	ND	7.6			25			
		07/21/2020	ND	53			180			
		Annual Mean	<370							
		Annual Max	<370							
		mg/kg dry weight	Plant 2 Dewatering Cake	11/17/2020			ND	0.82	1.7	
				Annual Mean			<0.82			
Annual Max		<0.82								

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Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
p,p'-DDE	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	190	1300		
				01/28/2020	ND	130	430		
				04/21/2020	ND	7.3	24		
				07/21/2020	ND	120	400		
				Annual Mean	<190				
		Annual Max	<190						
		mg/kg dry weight	Plant 1 Dewatering Cake	11/17/2020	ND	0.87	2.0		
				Annual Mean	<0.87				
				Annual Max	<0.87				
				EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	160
	01/28/2020						ND	120	400
	04/21/2020	ND	7.6				25		
	07/21/2020	ND	53		180				
	Annual Mean	<160							
Annual Max	<160								
mg/kg dry weight	Plant 2 Dewatering Cake	11/17/2020	ND	0.75	1.7				
		Annual Mean	<0.75						
p,p'-DDT	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	460	1300		
				01/28/2020	ND	130	430		
				04/21/2020	ND	7.3	24		
				07/21/2020	ND	120	400		
				Annual Mean	<460				
		Annual Max	<460						
		mg/kg dry weight	Plant 1 Dewatering Cake	11/17/2020	ND	1.4	2.0		
				Annual Mean	<1.4				
				Annual Max	<1.4				
				EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	400
	01/28/2020						ND	120	400
	04/21/2020	ND	7.6				25		
	07/21/2020	ND	53		180				
	Annual Mean	<400							
Annual Max	<400								
mg/kg dry weight	Plant 2 Dewatering Cake	11/17/2020	ND	1.2	1.7				
		Annual Mean	<1.2						
Total DDTs	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	0.0	--	--		
				01/28/2020	0.0	--	--		
				04/21/2020	0.0	--	--		
				07/21/2020	0.0	--	--		
				Annual Mean	0.0				
	Annual Max	0.0							
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	0.0	--	--		
				01/28/2020	0.0	--	--		
				04/21/2020	0.0	--	--		
				07/21/2020	0.0	--	--		
Annual Mean				0.0					
Annual Max	0.0								

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
Toxaphene	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	12000	52000			
				01/28/2020	ND	4300	17000			
				04/21/2020	ND	240	970			
				07/21/2020	ND	4000	16000			
				Annual Mean	<12000					
				Annual Max	<12000					
		mg/kg dry weight	Plant 1 Dewatering Cake	11/17/2020	ND	7.3	40			
				Annual Mean	<7.3					
				Annual Max	<7.3					
	EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	11000	46000			
				01/28/2020	ND	4000	16000			
				04/21/2020	ND	250	1000			
				07/21/2020	ND	1800	7100			
Annual Mean				<11000						
Annual Max				<11000						
mg/kg dry weight		Plant 2 Dewatering Cake	11/17/2020	ND	6.3	34				
			Annual Mean	<6.3						
		Annual Max	<6.3							
<b>PCBs</b>										
PCB 1016	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	95	200			
				04/21/2020	ND	160	480			
				07/21/2020	ND	68	200			
				10/20/2020	ND	98	210			
				Annual Mean	<160					
				Annual Max	<160					
				EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	87	180
							04/21/2020	ND	180	520
	07/21/2020	ND	61				180			
	10/20/2020	ND	87				180			
	Annual Mean	<180								
	Annual Max	<180								
	PCB 1221	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	120	200		
					04/21/2020	ND	160	480		
07/21/2020					ND	68	200			
10/20/2020					ND	120	210			
Annual Mean					<160					
Annual Max					<160					
EPA 8082					µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	110	180
							04/21/2020	ND	180	520
		07/21/2020	ND	61			180			
		10/20/2020	ND	110			180			
		Annual Mean	<180							
		Annual Max	<180							
PCB 1232		EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	130	200		
					04/21/2020	ND	160	480		
	07/21/2020				ND	68	200			
	10/20/2020				ND	130	210			
	Annual Mean				<160					
	Annual Max				<160					
	EPA 8082				µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	120	180
							04/21/2020	ND	180	520
		07/21/2020	ND	61			180			
		10/20/2020	ND	120			180			
		Annual Mean	<180							
		Annual Max	<180							

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
PCB 1242	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	61	200	
				04/21/2020	ND	160	480	
				07/21/2020	ND	68	200	
				10/20/2020	ND	63	210	
				Annual Mean	<160			
				Annual Max	<160			
				01/21/2020	ND	56	180	
	04/21/2020	ND	180	520				
	07/21/2020	ND	61	180				
	10/20/2020	ND	56	180				
	Annual Mean	<180						
	Annual Max	<180						
	PCB 1248	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	63	200
					04/21/2020	ND	160	480
07/21/2020					ND	68	200	
10/20/2020					ND	65	210	
Annual Mean					<160			
Annual Max					<160			
01/21/2020					ND	58	180	
04/21/2020		ND	180	520				
07/21/2020		ND	61	180				
10/20/2020		ND	58	180				
Annual Mean		<180						
Annual Max		<180						
PCB 1254		EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	61	200
					04/21/2020	ND	160	480
	07/21/2020				ND	68	200	
	10/20/2020				ND	63	210	
	Annual Mean				<160			
	Annual Max				<160			
	01/21/2020				ND	56	180	
	04/21/2020	ND	180	520				
	07/21/2020	ND	61	180				
	10/20/2020	ND	56	180				
	Annual Mean	<180						
	Annual Max	<180						
	PCB 1260	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	61	200
					04/21/2020	ND	160	480
07/21/2020					ND	68	200	
10/20/2020					ND	63	210	
Annual Mean					<160			
Annual Max					<160			
01/21/2020					ND	56	180	
04/21/2020		ND	180	520				
07/21/2020		ND	61	180				
10/20/2020		ND	56	180				
Annual Mean		<180						
Annual Max		<180						
PCB_HR_DM		EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	04/21/2020	ND	160	480
					Annual Mean	<160		
	Annual Max				<160			
	EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	04/21/2020	ND	180	520	
				Annual Mean	<180			
				Annual Max	<180			

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
Total PCBs	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	04/21/2020	0	--	--			
				07/21/2020	0	--	--			
				10/20/2020	0	--	--			
				Annual Mean	0					
				Annual Max	0					
	EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	04/21/2020	0	--	--			
				07/21/2020	0	--	--			
				10/20/2020	0	--	--			
				Annual Mean	0					
				Annual Max	0					
<b>Herbicides</b>										
2,4,5-TP (Silvex)	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	140	278			
				07/21/2020	ND	730	1460			
				Annual Mean	<730					
				Annual Max	<730					
	EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	120	242			
				07/21/2020	ND	590	1180			
				Annual Mean	<590					
				Annual Max	<590					
	2,4-D	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	1800	3700		
					07/21/2020	ND	9700	19500		
Annual Mean					<9700					
Annual Max					<9700					
EPA 8151A		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	1600	3230			
				07/21/2020	ND	7800	15700			
				Annual Mean	<7800					
				Annual Max	<7800					
Pentachlorophenol		EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	ND	180	370		
					07/21/2020	ND	970	1950		
	Annual Mean				<970					
	Annual Max				<970					
	EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	ND	160	323			
				07/21/2020	ND	780	1570			
				Annual Mean	<780					
				Annual Max	<780					
	<b>Dioxins/Furans</b>									
	2,3,7,8-TCDD	EPA 1613B	pg/g dry	Plant 1 Dewatering Cake	01/21/2020	ND	2.5	18		
04/21/2020					ND	2.7	23			
07/21/2020					7.4 DNQ	2.6	19			
10/20/2020					ND	4.9	21			
Annual Mean					4.4 DNQ					
Annual Max					7.4 DNQ					
EPA 1613B					pg/g dry	Plant 2 Dewatering Cake	01/21/2020	ND	1.8	17
							04/21/2020	ND	3.9	28
							07/21/2020	ND	1.8	15
							10/20/2020	ND	3.7	17
Annual Mean		<3.9								
Annual Max		<3.9								

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
<b>Other</b>							
Asbestos	EPA/600/R-93/116	%	Plant 1 Dewatering Cake	01/21/2020	ND	--	1
				04/21/2020	ND	--	1
				07/21/2020	ND	--	1
				10/20/2020	ND	--	1
				Annual Mean		0	
				Annual Max		0	
	EPA/600/R-93/116	%	Plant 2 Dewatering Cake	01/21/2020	ND	--	1
				04/21/2020	ND	--	1
				07/21/2020	ND	--	1
				10/20/2020	ND	--	1
				Annual Mean		0	
				Annual Max		0	
<b>Tentatively Identified Compounds</b>							
.Alpha.- methylstyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	10/20/2020	260000	--	41000
				Annual Mean	260000		
				Annual Max	260000		
.GAMMA.- SITOSTEROL	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	07/21/2020	360000	--	32000
				Annual Mean	360000		
				Annual Max	360000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	10/20/2020	640000	--	37000
				Annual Mean	640000		
				Annual Max	640000		
17-(1,5- DIMETHYLHEXY L)-10,13-	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/21/2020	240000	--	28000
				Annual Mean	240000		
				Annual Max	240000		
17-(1,5- DIMETHYLHEXY L)-10,13-	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	10/20/2020	450000	--	37000
				Annual Mean	450000		
				Annual Max	450000		
17-(1,5- DIMETHYLHEXY L)-10,13- DIMETHYLHEX	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	1200000	--	16000
				Annual Mean	1200000		
				Annual Max	1200000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	1100000	--	15000
				Annual Mean	1100000		
				Annual Max	1100000		
3-Penten-2-one, 4- methyl-	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	270000	--	15000
				Annual Mean	270000		
				Annual Max	270000		
9- OCTADECENOIC ACID, (E)-	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	420000	--	16000
				Annual Mean	420000		
				Annual Max	420000		
Cholest-4-en-3- one	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	350000	--	16000
				10/20/2020	310000	--	41000
					400000	--	41000
				Annual Mean	350000		
				Annual Max	400000		
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020
	04/21/2020	690000	--				21000
	07/21/2020	430000	--				28000
	10/20/2020	650000	--				37000
		750000	--				37000
	Annual Mean	620000					
	Annual Max	750000					

**Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids**

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
Cholestan-3-ol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	07/21/2020	250000	--	32000		
				Annual Mean	250000				
				Annual Max	250000				
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	10/20/2020	410000	--	37000		
				Annual Mean	410000				
				Annual Max	410000				
Cholestan-3-one	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	10/20/2020	1800000	--	41000		
				Annual Mean	1800000				
				Annual Max	1800000				
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	04/21/2020	1600000	--	21000		
				10/20/2020	1900000	--	37000		
				Annual Mean	1800000				
Annual Max		1900000							
	CHOLESTANE, 4,5-EPOXY-, (4.ALPHA.,5.ALPH H	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	04/21/2020	1800000	--	20000	
					07/21/2020	2200000	--	32000	
Annual Mean					2000000				
Annual Max		2200000							
	CHOLESTANOL	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	10/20/2020	2100000	--	41000	
					330000	--	41000		
Annual Mean					1200000				
Annual Max			2100000						
		n-Hexadecanoic acid	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	510000	--	16000
						04/21/2020	640000	--	20000
10/20/2020	430000					--	41000		
Annual Mean			630000	--	41000				
	Annual Max			550000					
				640000					
EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	360000	--	15000		
	04/21/2020			450000	--	21000			
	10/20/2020			360000	--	37000			
	Annual Mean		590000	--	37000				
		Annual Max		440000					
				590000					
Octadec-9-Enoic Acid	EPA 8270C		µg/kg dry	Plant 1 Dewatering Cake	07/21/2020	240000	--	32000	
		10/20/2020			330000	--	41000		
		Annual Mean			280000				
		Annual Max			330000				
OCTADECANOIC ACID	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	04/21/2020	490000	--	20000		
				Annual Mean	490000				
				Annual Max	490000				
Squalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	580000	--	16000		
				07/21/2020	410000	--	32000		
				10/20/2020	360000	--	41000		
				Annual Mean	450000				
	Annual Max		580000						
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	530000	--	15000	
					07/21/2020	340000	--	28000	
					10/20/2020	430000	--	37000	
Annual Mean	430000								
Annual Max		530000							
	Tetradecane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	10/20/2020	290000	--	41000	
Annual Mean					290000				
Annual Max					290000				



## Appendix C: Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids

Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
UNKNOWN	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/21/2020	340000	--	16000
				04/21/2020	520000	--	20000
				07/21/2020	700000	--	32000
				10/20/2020	520000	--	41000
					380000	--	41000
				Annual Mean	490000		
				Annual Max	700000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/21/2020	310000	--	15000
				04/21/2020	830000	--	21000
				07/21/2020	470000	--	28000
				10/20/2020	680000	--	37000
					780000	--	37000
				Annual Mean	610000		
				Annual Max	830000		

### DEFINITIONS AND FOOTNOTES

**Definitions:**

**ND** = Not Detected

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

**N/A** = Not Applicable

**Annual Mean:**

If all results for a parameter were ND, the Annual Mean is reported as < the highest MDL for that parameter during the year.

If only some results for a parameter were ND, the ND is replaced by the MDL value for calculating the Annual Mean

For any parameter that had a DNQ result, the Annual Mean is also designated as DNQ.

**Annual Max:**

If all results for a parameter were ND, the Annual Max is reported as < the highest MDL for that parameter during the year.

Quantified values take priority for determining the maximum (ND and DNQ values are ignored). If there are only ND and DNQ values, the highest DNQ value is reported as the maximum with a DNQ notation.

**Footnotes:**

- **8260B Results for 4/22/20** - Results are in wet weight because total solids was mistakenly not logged for this sample.



## Biosolids Annual Report Landing Page / ORANGE COUNTY SD #1

**NPDES ID:** CAL110604**Facility Status:** Active**Facility Name:** ORANGE COUNTY SD #1

10844 ELLIS AVENUE FOUNTAIN VALLEY, CA 92708-7018

# View Annual Report

NPDES  
FORM  
6100-035UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460  
BIOSOLIDS ANNUAL REPORTForm Approved.  
OMB No. 2040-0004.  
Exp. 03/31/2022

EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_118](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118)), 503.28 ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_128](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128)), 503.48 ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_148](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148))). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_19](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19))), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (<https://www.epa.gov/npdes/npdes-state-program-information>) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_19](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19))' also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

**Public Availability of Information Submitted on and with General Permit Reports**

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk ([NPDESereporting@epa.gov](mailto:NPDESereporting@epa.gov) (<mailto:NPDESereporting@epa.gov>)) for further guidance.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

## Program Information

**Please select all of the following that apply to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:**

- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

**In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?**

YES  NO

**If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).**

30499

**Reporting Period Start Date:** 01/01/2020

**Reporting Period End Date:** 12/31/2020

## Treatment Processes

**Processes to Significantly Reduce Pathogens (PSRP):**

Anaerobic Digestion

**Processes to Further Reduce Pathogens (PFRP):**

**Physical Treatment Options:**

Preliminary Operations (e.g., sludge grinding, degritting, blending)

Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)

**Other Processes to Manage Sewage Sludge:**

Methane or Biogas Capture and Recovery

Analytical Methods

Did you or your facility collect sewage sludge or biosolids samples for laboratory analysis?  YES  NO

**Analytical Methods**

- EPA Method 6010 - Arsenic (ICP-OES)
- EPA Method 6010 - Cadmium (ICP-OES)
- EPA Method 6010 - Chromium (ICP-OES)
- EPA Method 6010 - Copper (ICP-OES)
- EPA Method 6010 - Lead (ICP-OES)
- EPA Method 7471 - Mercury (CVAA)
- EPA Method 6010 - Molybdenum (ICP-OES)
- EPA Method 6010 - Nickel (ICP-OES)
- EPA Method 6010 - Selenium (ICP-OES)
- EPA Method 6010 - Zinc (ICP-OES)
- EPA Method 6010 - Beryllium (ICP-OES)
- EPA Method 351.2 - Total Kjeldahl Nitrogen
- Standard Method 4500-N - Nitrogen
- Standard Method 2540 - Total Solids
- Standard Method 2540 - Volatile Solids
- EPA Method 9045 - pH (> 7% solids)

**Other Analytical Methods**

- Other Nitrogen Analytical Method

**Other Analytical Methods Text Area:**

EPA 300.0

Sludge Management - Land Application

ID: 001

Amount: 16708

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

**Facility Information:**

Synagro - Nursery Products  
PO Box 1439  
Helendale, CA 92342

**Contact Information:**

Venny Vasquez  
Site Manager  
760-265-5210  
vvasquez@synagro.com

Pathogen Class: Class A EQ

**Sewage Sludge or Biosolids Pathogen Reduction Options:**

- Class A-Alternative 5: PFRP 1: Composting

**Sewage Sludge or Biosolids Vector Attraction Reduction Options:**

- [Option 1 - Volatile Solids Reduction](#)
- [Option 5 - Aerobic Processing \(Thermophilic Aerobic Digestion/Composting\)](#)

**Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?**

YES  NO  UNKNOWN

**Monitoring Data**

**INSTRUCTIONS:** Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_18](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18))). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

**Compliance Monitoring Periods**

**INSTRUCTIONS:** Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_116](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116))).

**Compliance Monitoring Event No. 1****Compliance Monitoring Period Start Date:**

01/01/2020

**Compliance Monitoring Period End Date:**

01/31/2020

**Do you have analytical results to report for this monitoring period?**  YES  NO

**Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]**

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.3	
Cadmium	=	2.3	
Copper	=	300	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	13	
Nickel	=	27	
Selenium	=	9.3	
Zinc	=	580	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.7	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.3	
Cadmium	=	2.3	
Copper	=	300	
Lead	=	14	
Mercury	<	1	
Nickel	=	27	
Selenium	=	9.3	
Zinc	=	580	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	35000	

Compliance Monitoring Event No. 2

Compliance Monitoring Period Start Date:  
02/01/2020

Compliance Monitoring Period End Date:  
02/29/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.9	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Cadmium	=	3.4	
Copper	=	280	
Lead	=	18	
Mercury	<	1	
Molybdenum	=	14	
Nickel	=	26	
Selenium	=	8.9	
Zinc	=	610	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	52.08	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.9	
Cadmium	=	3.4	
Copper	=	280	
Lead	=	18	
Mercury	<	1	
Nickel	=	26	
Selenium	=	8.9	
Zinc	=	610	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	31000	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date:  
03/01/2020

Compliance Monitoring Period End Date:  
03/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.6	
Cadmium	=	3.6	
Copper	=	340	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	14	
Nickel	=	31	
Selenium	=	12	
Zinc	=	710	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	61.36	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.6	
Cadmium	=	3.6	
Copper	=	340	
Lead	=	17	
Mercury	<	1	



Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	31	
Selenium	=	12	
Zinc	=	710	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	36000	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date:

Compliance Monitoring Period End Date:

04/01/2020

04/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	2.1	
Cadmium	<	1	
Copper	=	31	
Lead	=	11	
Mercury	<	1	
Molybdenum	=	1.5	
Nickel	=	9.2	
Selenium	<	1	
Zinc	=	110	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	2.1	
Cadmium	<	1	
Copper	=	31	
Lead	=	11	
Mercury	<	1	
Nickel	=	9.2	
Selenium	<	1	
Zinc	=	110	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	33000	

**Compliance Monitoring Event No. 5**                      **Compliance Monitoring Period Start Date:** 05/01/2020                      **Compliance Monitoring Period End Date:** 05/31/2020

Do you have analytical results to report for this monitoring period?       YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]  
 YES     NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	2.5	
Copper	=	240	
Lead	=	13	
Mercury	<	1	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Molybdenum	=	12	
Nickel	=	22	
Selenium	=	8.3	
Zinc	=	470	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	14	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	56.76	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	2.5	
Copper	=	240	
Lead	=	13	
Mercury	<	1	
Nickel	=	22	
Selenium	=	8.3	
Zinc	=	470	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	27000	

Compliance Monitoring Event No. 6

Compliance Monitoring Period Start Date:  
06/01/2020

Compliance Monitoring Period End Date:  
06/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.6	
Cadmium	=	3.2	
Copper	=	310	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	25	
Selenium	=	10	
Zinc	=	550	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53.66	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.6	
Cadmium	=	3.2	
Copper	=	310	
Lead	=	15	
Mercury	<	1	
Nickel	=	25	
Selenium	=	10	
Zinc	=	550	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	31000	

**Compliance Monitoring Event No. 7**      **Compliance Monitoring Period Start Date:** 07/01/2020      **Compliance Monitoring Period End Date:** 07/31/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	3	
Copper	=	230	
Lead	=	4.2	
Mercury	<	1	
Molybdenum	=	12	
Nickel	=	24	
Selenium	=	9.7	
Zinc	=	450	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	3	
Copper	=	230	
Lead	=	4.2	
Mercury	<	1	
Nickel	=	24	
Selenium	=	9.7	
Zinc	=	450	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	26000	

Compliance Monitoring Event No. 8

Compliance Monitoring Period Start Date:  
08/01/2020

Compliance Monitoring Period End Date:  
08/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	2.8	
Copper	=	270	
Lead	=	16	
Mercury	=	0.94	
Molybdenum	=	12	
Nickel	=	24	
Selenium	=	10	
Zinc	=	530	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	50	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	2.8	
Copper	=	270	
Lead	=	16	
Mercury	=	0.94	
Nickel	=	24	
Selenium	=	10	
Zinc	=	530	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	29000	

**Compliance Monitoring Event No. 9**

**Compliance Monitoring Period Start Date:**  
09/01/2020

**Compliance Monitoring Period End Date:**  
09/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.3	
Cadmium	=	2.9	
Copper	=	260	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	14	
Nickel	=	24	
Selenium	=	9.2	
Zinc	=	500	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.3	
Cadmium	=	2.9	
Copper	=	260	
Lead	=	17	
Mercury	<	1	
Nickel	=	24	
Selenium	=	9.2	
Zinc	=	500	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	24000	

Compliance Monitoring Event No. 10

Compliance Monitoring Period Start Date:  
10/01/2020

Compliance Monitoring Period End Date:  
10/31/2020



Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.2	
Cadmium	=	2.7	
Copper	=	240	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	22	
Selenium	=	9.8	
Zinc	=	530	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.46	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.2	
Cadmium	=	2.7	
Copper	=	240	
Lead	=	16	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Mercury	<	1	
Nickel	=	22	
Selenium	=	9.8	
Zinc	=	530	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	29000	

Compliance Monitoring Event No. 11

Compliance Monitoring Period Start Date:  
11/01/2020Compliance Monitoring Period End Date:  
11/30/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	3.1	
Copper	=	250	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	14	
Nickel	=	24	
Selenium	=	9.3	
Zinc	=	550	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65.79	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	3.1	
Copper	=	250	
Lead	=	17	
Mercury	<	1	
Nickel	=	24	
Selenium	=	9.3	
Zinc	=	550	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	31000	

Compliance Monitoring Event No. 12

Compliance Monitoring Period Start Date:  
12/01/2020

Compliance Monitoring Period End Date:  
12/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.8	
Cadmium	=	1.7	
Copper	=	160	
Lead	=	15	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Mercury	<	1	
Molybdenum	=	8.2	
Nickel	=	13	
Selenium	=	5.8	
Zinc	=	330	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.8	
Cadmium	=	1.7	
Copper	=	160	
Lead	=	15	
Mercury	<	1	
Nickel	=	13	
Selenium	=	5.8	
Zinc	=	330	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	27000	

ID: 002

Amount: 698

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: BulkHandler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

**Facility Information:**

Synagro - South Kern Compost Manufacturing Facility  
P.O. Box 265  
Taft, CA 93268

**Contact Information:**

Rob Rankin  
Site Manager  
661-765-2200  
rrankin@synagro.com

Pathogen Class: Class A EQ**Sewage Sludge or Biosolids Pathogen Reduction Options:**

- Class A-Alternative 5: PFRP 1: Composting

**Sewage Sludge or Biosolids Vector Attraction Reduction Options:**

- Option 1 - Volatile Solids Reduction
- Option 5 - Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

**Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?**

YES  NO  UNKNOWN

## Monitoring Data

**INSTRUCTIONS:** Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_18](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18))). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

**Compliance Monitoring Periods**

**INSTRUCTIONS:** Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_116](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116))).

Compliance Monitoring Event No. 1

Compliance Monitoring Period Start Date:

01/01/2020

Compliance Monitoring Period End Date:

01/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.5	
Cadmium	=	4	
Copper	=	300	
Lead	=	20	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Mercury	<	1	
Molybdenum	=	21.4	
Nickel	=	31	
Selenium	=	13	
Zinc	=	690	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.7	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.9	
Cadmium	=	2.97	
Copper	=	289	
Lead	=	18.5	
Mercury	<	0.42	
Nickel	=	28.3	
Selenium	<	6.6	
Zinc	=	578	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	31000	

Compliance Monitoring Event No. 2

Compliance Monitoring Period Start Date:  
02/01/2020

Compliance Monitoring Period End Date:  
02/29/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.6	
Cadmium	=	4	
Copper	=	300	
Lead	=	22	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	31	
Selenium	=	14	
Zinc	=	710	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	52.08	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5	
Cadmium	=	3.16	
Copper	=	298	
Lead	=	19.3	
Mercury	<	0.43	
Nickel	=	28.8	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	<	7.1	
Zinc	=	587	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	33000	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date:  
03/01/2020Compliance Monitoring Period End Date:  
03/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.9	
Cadmium	=	4.1	
Copper	=	290	
Lead	=	20	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	29	
Selenium	=	12	
Zinc	=	755	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.



Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	61.36	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.5	
Cadmium	=	3.5	
Copper	=	284	
Lead	=	18.4	
Mercury	<	0.42	
Nickel	=	28.4	
Selenium	<	6.1	
Zinc	=	698	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	31000	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date:

04/01/2020

Compliance Monitoring Period End Date:

04/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.7	
Cadmium	=	4.3	
Copper	=	258	
Lead	=	19	
Mercury	<	1	
Molybdenum	=	11.7	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	25	
Selenium	<	1	
Zinc	=	439	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	<	1.34	
Copper	=	144	
Lead	=	18	
Mercury	<	0.4	
Nickel	=	24.5	
Selenium	<	0.3	
Zinc	=	285	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	34000	

**Compliance Monitoring Event No. 5****Compliance Monitoring Period Start Date:**

05/01/2020

**Compliance Monitoring Period End Date:**

05/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	2.18	
Copper	=	280	
Lead	=	21	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	27	
Selenium	=	12	
Zinc	=	610	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	4	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	56.76	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.8	
Cadmium	=	3.03	
Copper	=	194	
Lead	=	16.6	
Mercury	<	0.42	
Nickel	=	22.7	
Selenium	<	6.1	
Zinc	=	479	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	34000	

Compliance Monitoring Event No. 6

Compliance Monitoring Period Start Date:

06/01/2020

Compliance Monitoring Period End Date:

06/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.7	
Cadmium	=	4.3	
Copper	=	277	
Lead	=	22	
Mercury	<	1	
Molybdenum	=	13.3	
Nickel	=	27	
Selenium	=	10	
Zinc	=	520	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	21	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53.66	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.6	
Cadmium	=	3.47	
Copper	=	254	
Lead	=	19.9	
Mercury	<	0.34	
Nickel	=	26.5	
Selenium	<	5.1	
Zinc	=	507	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	27000	

Compliance Monitoring Event No. 7

Compliance Monitoring Period Start Date:  
07/01/2020Compliance Monitoring Period End Date:  
07/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.3	
Cadmium	=	4.3	
Copper	=	309	
Lead	=	19	
Mercury	<	1	
Molybdenum	=	12.9	
Nickel	=	26	
Selenium	=	10	
Zinc	=	530	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.6	
Cadmium	=	3.44	
Copper	=	270	
Lead	=	17.8	
Mercury	<	0.41	
Nickel	=	25.2	
Selenium	<	5	
Zinc	=	501	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	32000	

**Compliance Monitoring Event No. 8**

Compliance Monitoring Period Start Date:  
08/01/2020

Compliance Monitoring Period End Date:  
08/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.3	
Cadmium	=	4.5	
Copper	=	272	
Lead	=	15.5	
Mercury	<	1	
Molybdenum	=	10.7	
Nickel	=	22.6	
Selenium	=	7	
Zinc	=	436	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	50	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	2.4	
Cadmium	=	2.72	
Copper	=	216	
Lead	=	15.3	
Mercury	<	0.38	
Nickel	=	20.8	
Selenium	<	3.4	
Zinc	=	388	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	32000	

Compliance Monitoring Event No. 9

Compliance Monitoring Period Start Date:

Compliance Monitoring Period End Date:

09/01/2020

09/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.6	
Cadmium	=	3.2	
Copper	=	283	
Lead	=	20	
Mercury	<	1	
Molybdenum	=	14	
Nickel	=	30	
Selenium	=	11	
Zinc	=	580	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.8	
Cadmium	=	3.03	
Copper	=	262	



Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Lead	=	18.6	
Mercury	<	0.42	
Nickel	=	27	
Selenium	<	5.6	
Zinc	=	530	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	29000	

Compliance Monitoring Event No. 10

Compliance Monitoring Period Start Date:  
10/01/2020Compliance Monitoring Period End Date:  
10/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	=	4.1	
Copper	=	310	
Lead	=	28	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	29	
Selenium	=	13	
Zinc	=	680	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	8	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.46	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.2	
Cadmium	=	3.52	
Copper	=	303	
Lead	=	23.9	
Mercury	<	0.44	
Nickel	=	27.5	
Selenium	=	11.4	
Zinc	=	599	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	29000	

#### Compliance Monitoring Event No. 11

Compliance Monitoring Period Start Date:

11/01/2020

Compliance Monitoring Period End Date:

11/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.6	
Cadmium	=	4.7	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Copper	=	274	
Lead	=	18	
Mercury	<	1	
Molybdenum	=	11.1	
Nickel	=	23.4	
Selenium	=	10	
Zinc	=	449	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65.79	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3	
Cadmium	=	3.1	
Copper	=	242	
Lead	=	17.5	
Mercury	<	0.4	
Nickel	=	21.2	
Selenium	=	8.9	
Zinc	=	445	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	33000	

Compliance Monitoring Event No. 12

Compliance Monitoring Period Start Date:  
12/01/2020

Compliance Monitoring Period End Date:  
12/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.9	
Cadmium	=	3.3	
Copper	=	312	
Lead	=	21	
Mercury	<	1	
Molybdenum	=	13	
Nickel	=	25	
Selenium	=	10	
Zinc	=	580	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	2	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.6	
Cadmium	=	3.53	
Copper	=	281	
Lead	=	19	
Mercury	<	0.3	
Nickel	=	25	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	<	4.9	
Zinc	=	524	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	34000	

ID: 003

Amount: 194

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

**Facility Information:**

Synagro - AZ Soils  
5615 S. 91st Avenue  
Tolleson, AZ 85353

**Contact Information:**

Craig Geyer  
Area Director of Composting  
623-936-6328  
[Cgeyer@synagro.com](mailto:Cgeyer@synagro.com)

Pathogen Class: Class A EQ

**Sewage Sludge or Biosolids Pathogen Reduction Options:**

- Class A-Alternative 5: PFRP 1: Composting

**Sewage Sludge or Biosolids Vector Attraction Reduction Options:**

- Option 1 - Volatile Solids Reduction
- Option 5 - Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?

YES  NO  UNKNOWN

Monitoring Data

**INSTRUCTIONS:** Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_18](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18))). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

**Compliance Monitoring Periods**

**INSTRUCTIONS:** Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_116](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116))).

Compliance Monitoring Event No. 1

Compliance Monitoring Period Start Date:  
01/01/2020

Compliance Monitoring Period End Date:  
01/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	1.9	
Copper	=	440	
Lead	=	15	
Mercury	=	1.4	
Molybdenum	=	16	
Nickel	=	24	
Selenium	=	7	
Zinc	=	880	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	25	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.7	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	1.9	
Copper	=	440	
Lead	=	15	
Mercury	=	1.4	
Nickel	=	24	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	=	7	
Zinc	=	880	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	34401	

**Compliance Monitoring Event No. 2**

Compliance Monitoring Period Start Date:

02/01/2020

Compliance Monitoring Period End Date:

02/29/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.3	
Cadmium	=	0.37	
Copper	=	82	
Lead	=	2.9	
Mercury	=	1.1	
Molybdenum	=	2.8	
Nickel	=	4.8	
Selenium	=	2.1	
Zinc	=	170	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	85	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	52.08	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.3	
Cadmium	=	0.37	
Copper	=	82	
Lead	=	2.9	
Mercury	=	1.1	
Nickel	=	4.8	
Selenium	=	2.1	
Zinc	=	170	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	42401	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date:  
03/01/2020

Compliance Monitoring Period End Date:  
03/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	1.2	
Copper	=	350	
Lead	=	12	
Mercury	=	1.3	
Molybdenum	=	10	



Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	18	
Selenium	=	5	
Zinc	=	670	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	160	
Salmonella	<	2	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	61.36	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	1.2	
Copper	=	350	
Lead	=	12	
Mercury	=	1.3	
Nickel	=	18	
Selenium	=	5	
Zinc	=	670	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	35914	

**Compliance Monitoring Event No. 4****Compliance Monitoring Period Start Date:**

04/01/2020

**Compliance Monitoring Period End Date:**

04/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.4	
Cadmium	=	1.5	
Copper	=	420	
Lead	=	14	
Mercury	=	1.2	
Molybdenum	=	15	
Nickel	=	22	
Selenium	=	6.9	
Zinc	=	830	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	27	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.4	
Cadmium	=	1.5	
Copper	=	420	
Lead	=	14	
Mercury	=	1.2	
Nickel	=	22	
Selenium	=	6.9	
Zinc	=	830	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	39215	

Compliance Monitoring Event No. 5      Compliance Monitoring Period Start Date: 05/01/2020      Compliance Monitoring Period End Date: 05/31/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.3	
Cadmium	=	0.32	
Copper	=	79	
Lead	=	2.9	
Mercury	=	1.1	
Molybdenum	=	2.5	
Nickel	=	4.6	
Selenium	<	2	
Zinc	=	160	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	32	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	56.76	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.3	
Cadmium	=	0.32	
Copper	=	79	
Lead	=	2.9	
Mercury	=	1.1	
Nickel	=	4.6	
Selenium	<	2	
Zinc	=	160	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	40112	

Compliance Monitoring Event No. 6

Compliance Monitoring Period Start Date:  
06/01/2020Compliance Monitoring Period End Date:  
06/30/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.9	
Cadmium	=	0.48	
Copper	=	130	
Lead	=	4.2	
Mercury	=	1	
Molybdenum	=	6.1	
Nickel	=	7.3	
Selenium	=	2.4	
Zinc	=	270	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	24	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53.66	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.9	
Cadmium	=	0.48	
Copper	=	130	
Lead	=	4.2	
Mercury	=	1	
Nickel	=	7.3	
Selenium	=	2.4	
Zinc	=	270	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	38113	

**Compliance Monitoring Event No. 7**

Compliance Monitoring Period Start Date:  
07/01/2020

Compliance Monitoring Period End Date:  
07/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.2	
Cadmium	=	2.9	
Copper	=	490	
Lead	=	17	
Mercury	=	1	
Molybdenum	=	20	
Nickel	=	23	
Selenium	=	10	
Zinc	=	890	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	27	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.2	
Cadmium	=	2.9	
Copper	=	490	
Lead	=	17	
Mercury	=	1	
Nickel	=	23	
Selenium	=	10	
Zinc	=	890	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	40211	

Compliance Monitoring Event No. 8

Compliance Monitoring Period Start Date:

Compliance Monitoring Period End Date:

08/01/2020

08/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	1.4	
Copper	=	430	
Lead	=	13	
Mercury	=	0.99	
Molybdenum	=	17	
Nickel	=	19	
Selenium	=	8.6	
Zinc	=	790	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	25	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	50	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	1.4	
Copper	=	430	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Lead	=	13	
Mercury	=	0.99	
Nickel	=	19	
Selenium	=	8.6	
Zinc	=	790	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	37501	

Compliance Monitoring Event No. 9                      Compliance Monitoring Period Start Date: 09/01/2020                      Compliance Monitoring Period End Date: 09/30/2020

Do you have analytical results to report for this monitoring period?       YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	1.4	
Copper	=	400	
Lead	=	11	
Mercury	=	0.92	
Molybdenum	=	16	
Nickel	=	18	
Selenium	=	7.8	
Zinc	=	810	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	24	



Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	1.4	
Copper	=	400	
Lead	=	11	
Mercury	=	0.92	
Nickel	=	18	
Selenium	=	7.8	
Zinc	=	810	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	39901	

#### Compliance Monitoring Event No. 10

Compliance Monitoring Period Start Date:  
10/01/2020

Compliance Monitoring Period End Date:  
10/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.4	
Cadmium	=	1.3	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Copper	=	390	
Lead	=	11	
Mercury	=	0.79	
Molybdenum	=	18	
Nickel	=	17	
Selenium	=	8.6	
Zinc	=	800	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	28	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.46	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.4	
Cadmium	=	1.3	
Copper	=	390	
Lead	=	11	
Mercury	=	0.79	
Nickel	=	17	
Selenium	=	8.6	
Zinc	=	800	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	42111	

Compliance Monitoring Event No. 11

Compliance Monitoring Period Start Date:

11/01/2020

Compliance Monitoring Period End Date:

11/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.9	
Cadmium	=	1.3	
Copper	=	440	
Lead	=	11	
Mercury	=	0.93	
Molybdenum	=	15	
Nickel	=	19	
Selenium	=	8.6	
Zinc	=	880	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	27	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65.79	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.9	
Cadmium	=	1.3	
Copper	=	440	
Lead	=	11	
Mercury	=	0.93	
Nickel	=	19	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	=	8.6	
Zinc	=	880	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	38514	

**Compliance Monitoring Event No. 12**                      **Compliance Monitoring Period Start Date:** 12/01/2020                      **Compliance Monitoring Period End Date:** 12/31/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.1	
Cadmium	=	1.7	
Copper	=	460	
Lead	=	11	
Mercury	=	0.92	
Molybdenum	=	13	
Nickel	=	19	
Selenium	=	8.5	
Zinc	=	900	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	26	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.1	
Cadmium	=	1.7	
Copper	=	460	
Lead	=	11	
Mercury	=	0.92	
Nickel	=	19	
Selenium	=	8.5	
Zinc	=	900	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	43216	

ID: 004

Amount: 5498

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

#### Facility Information:

Liberty Compost  
12421 Holloway Road  
Lost Hills, CA 93249

#### Contact Information:

Patrick McCarthy  
 Site Manager  
661-797-2914  
patrickmccarthy@mccarthyfarms.com

Pathogen Class: Class A EQ

#### Sewage Sludge or Biosolids Pathogen Reduction Options:

- Class A-Alternative 5: PFRP 1: Composting

#### Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 - Volatile Solids Reduction
- Option 5 - Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?

YES  NO  UNKNOWN

## Monitoring Data

**INSTRUCTIONS:** Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_18](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18))). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

## Compliance Monitoring Periods

**INSTRUCTIONS:** Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_116](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116))).

Compliance Monitoring Event No. 1

Compliance Monitoring Period Start Date:  
01/01/2020Compliance Monitoring Period End Date:  
01/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO

## Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.4	
Cadmium	=	4.4	
Copper	=	460	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	25	
Nickel	=	40	
Selenium	=	18	
Zinc	=	760	

## Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
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Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.7	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.4	
Cadmium	=	4.4	
Copper	=	460	
Lead	=	15	
Mercury	<	1	
Nickel	=	40	
Selenium	=	18	
Zinc	=	760	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	8800	

Compliance Monitoring Event No. 2

Compliance Monitoring Period Start Date:

02/01/2020

Compliance Monitoring Period End Date:

02/29/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	3.3	
Copper	=	380	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	16	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	30	
Selenium	=	9.5	
Zinc	=	640	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	52.08	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	3.3	
Copper	=	380	
Lead	=	14	
Mercury	<	1	
Nickel	=	30	
Selenium	=	9.5	
Zinc	=	640	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	5400	

**Compliance Monitoring Event No. 3****Compliance Monitoring Period Start Date:**

03/01/2020

**Compliance Monitoring Period End Date:**

03/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO



**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	=	3.4	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	32	
Selenium	=	10	
Zinc	=	660	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	61.36	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	=	3.4	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Nickel	=	32	
Selenium	=	10	
Zinc	=	660	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	4300	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date:  
04/01/2020Compliance Monitoring Period End Date:  
04/30/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6	
Cadmium	=	3.4	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	32	
Selenium	=	8.9	
Zinc	=	640	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6	
Cadmium	=	3.4	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Nickel	=	32	
Selenium	=	8.9	
Zinc	=	640	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	7100	

**Compliance Monitoring Event No. 5****Compliance Monitoring Period Start Date:**  
05/01/2020**Compliance Monitoring Period End Date:**  
05/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	=	40	
Copper	=	310	
Lead	=	12	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	26	
Selenium	=	8.3	
Zinc	=	550	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	56.76	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	=	2.5	
Copper	=	310	
Lead	=	12	
Mercury	<	1	
Nickel	=	26	
Selenium	=	8.3	
Zinc	=	550	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	9700	

**Compliance Monitoring Event No. 6**

Compliance Monitoring Period Start Date:  
06/01/2020

Compliance Monitoring Period End Date:  
06/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	3.3	
Copper	=	43	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	18	
Nickel	=	28	
Selenium	=	8.6	
Zinc	=	670	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53.66	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	3.3	
Copper	=	430	
Lead	=	14	
Mercury	<	1	
Nickel	=	28	
Selenium	=	8.6	
Zinc	=	670	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	6700	

Compliance Monitoring Event No. 7

Compliance Monitoring Period Start Date:

Compliance Monitoring Period End Date:

07/01/2020

07/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	3.1	
Copper	=	390	
Lead	=	12	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	27	
Selenium	=	7.1	
Zinc	=	620	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	3.1	
Copper	=	390	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Lead	=	12	
Mercury	<	1	
Nickel	=	27	
Selenium	=	7.1	
Zinc	=	620	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	7400	

Compliance Monitoring Event No. 8

Compliance Monitoring Period Start Date:  
08/01/2020Compliance Monitoring Period End Date:  
08/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.2	
Cadmium	=	2.4	
Copper	=	330	
Lead	=	12	
Mercury	<	1	
Molybdenum	=	13	
Nickel	=	28	
Selenium	=	5	
Zinc	=	510	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	50	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.2	
Cadmium	=	2.4	
Copper	=	330	
Lead	=	12	
Mercury	<	1	
Nickel	=	28	
Selenium	=	5	
Zinc	=	510	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	6200	

#### Compliance Monitoring Event No. 9

Compliance Monitoring Period Start Date:  
09/01/2020

Compliance Monitoring Period End Date:  
09/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	3	



Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	21	
Nickel	=	31	
Selenium	=	10	
Zinc	=	650	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	3	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Nickel	=	31	
Selenium	=	10	
Zinc	=	650	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	7100	

Compliance Monitoring Event No. 10

Compliance Monitoring Period Start Date:  
10/01/2020

Compliance Monitoring Period End Date:  
10/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.7	
Cadmium	=	2.4	
Copper	=	430	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	20	
Nickel	=	32	
Selenium	=	8.5	
Zinc	=	780	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.46	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.7	
Cadmium	=	2.4	
Copper	=	430	
Lead	=	14	
Mercury	<	1	
Nickel	=	32	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	=	8.5	
Zinc	=	780	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	7900	

Compliance Monitoring Event No. 11

Compliance Monitoring Period Start Date:

11/01/2020

Compliance Monitoring Period End Date:

11/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	2.4	
Copper	=	420	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	19	
Nickel	=	30	
Selenium	=	8.2	
Zinc	=	640	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65.79	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	2.4	
Copper	=	420	
Lead	=	14	
Mercury	<	1	
Nickel	=	30	
Selenium	=	8.2	
Zinc	=	640	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	6600	

Compliance Monitoring Event No. 12

Compliance Monitoring Period Start Date:  
12/01/2020

Compliance Monitoring Period End Date:  
12/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.3	
Cadmium	=	2.1	
Copper	=	330	
Lead	=	2.5	
Mercury	<	1	
Molybdenum	=	12	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	22	
Selenium	=	5.3	
Zinc	=	480	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.3	
Cadmium	=	2.1	
Copper	=	330	
Lead	=	2.5	
Mercury	<	1	
Nickel	=	22	
Selenium	=	5.3	
Zinc	=	480	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	6500	

ID: 005

Amount: 7401

Management Practice Detail: Agricultural Land ApplicationBulk or Bag/Container: BulkHandler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

**NPDES ID of handler:****Facility Information:**

Tule Ranch / Ag-Tech  
4324 E. Ashlan Ave.  
Fresno, CA 93726

**Contact Information:**

Shaen Magan  
Owner  
559-970-9432  
kurt@westexp.com

**Pathogen Class:** Class B

**Sewage Sludge or Biosolids Pathogen Reduction Options:**

- Class B-Alternative 2 PSRP 3: Anaerobic Digestion

**Sewage Sludge or Biosolids Vector Attraction Reduction Options:**

- Option 1 - Volatile Solids Reduction
- Option 10 - Sewage Sludge Timely Incorporation into Land

**Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?**

YES  NO  UNKNOWN

## Monitoring Data

**INSTRUCTIONS:** Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_18](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18))). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

**Compliance Monitoring Periods**

**INSTRUCTIONS:** Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_116](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116))).

**Compliance Monitoring Event No. 1**

**Compliance Monitoring Period Start Date:**

01/01/2020

**Compliance Monitoring Period End Date:**

01/31/2020

**Do you have analytical results to report for this monitoring period?**  YES  NO

**Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]**

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.2	
Cadmium	=	1.8	
Copper	=	550	
Lead	=	14	
Mercury	=	1.2	
Molybdenum	=	16	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	38	
Selenium	=	12	
Zinc	=	820	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.7	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.75	
Cadmium	J (Below RL but Above MDL)	1.65	
Copper	=	530	
Lead	=	13	
Mercury	=	1.2	
Nickel	=	37	
Selenium	=	12	
Zinc	=	800	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	52000	

**Compliance Monitoring Event No. 2****Compliance Monitoring Period Start Date:**

02/01/2020

**Compliance Monitoring Period End Date:**

02/29/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	6.2	
Cadmium	=	2.3	
Copper	=	540	
Lead	=	12	
Mercury	=	0.87	
Molybdenum	=	18	
Nickel	=	42	
Selenium	<	3.8	
Zinc	=	710	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	52.08	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	6.2	
Cadmium	J (Below RL but Above MDL)	2.1	
Copper	=	510	
Lead	=	11.5	
Mercury	=	0.745	
Nickel	=	39	
Selenium	<	3.8	
Zinc	=	680	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	52500	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date:  
03/01/2020Compliance Monitoring Period End Date:  
03/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO



**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.4	
Cadmium	=	1.9	
Copper	=	620	
Lead	=	13	
Mercury	=	0.7	
Molybdenum	=	17	
Nickel	=	40	
Selenium	<	0.99	
Zinc	=	830	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	61.36	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.4	
Cadmium	=	1.85	
Copper	=	600	
Lead	=	12.5	
Mercury	=	0.665	
Nickel	=	36	
Selenium	<	0.99	
Zinc	=	750	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	53000	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date:

Compliance Monitoring Period End Date:

04/01/2020

04/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.6	
Cadmium	=	2.1	
Copper	=	560	
Lead	=	14	
Mercury	=	1.8	
Molybdenum	=	19	
Nickel	=	40	
Selenium	<	1.2	
Zinc	=	790	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.6	
Cadmium	=	2	
Copper	=	550	
Lead	=	13.5	
Mercury	=	1.175	
Nickel	=	38.5	
Selenium	<	1.2	
Zinc	=	790	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	59000	

**Compliance Monitoring Event No. 5**      **Compliance Monitoring Period Start Date:** 05/01/2020      **Compliance Monitoring Period End Date:** 05/31/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	1.9	
Copper	=	520	
Lead	=	15	
Mercury	=	0.52	
Molybdenum	=	18	
Nickel	=	38	
Selenium	<	0.94	
Zinc	=	840	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	56.76	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	1.85	
Copper	=	510	
Lead	=	14	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Mercury	=	0.51	
Nickel	=	37	
Selenium	<	0.94	
Zinc	=	810	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	54000	

Compliance Monitoring Event No. 6

Compliance Monitoring Period Start Date:  
06/01/2020

Compliance Monitoring Period End Date:  
06/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	1.9	
Copper	=	530	
Lead	=	15	
Mercury	=	0.49	
Molybdenum	=	20	
Nickel	=	42	
Selenium	<	0.95	
Zinc	=	840	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53.66	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	1.7	
Copper	=	490	
Lead	=	13.5	
Mercury	=	0.475	
Nickel	=	36	
Selenium	<	0.95	
Zinc	=	770	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	50000	

**Compliance Monitoring Event No. 7****Compliance Monitoring Period Start Date:**  
07/01/2020**Compliance Monitoring Period End Date:**  
07/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	1.7	
Copper	=	540	
Lead	=	15	
Mercury	=	0.54	
Molybdenum	=	20	
Nickel	=	37	
Selenium	<	0.95	
Zinc	=	820	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	1.6	
Copper	=	540	
Lead	=	15	
Mercury	=	0.485	
Nickel	=	35	
Selenium	<	0.95	
Zinc	=	790	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	54000	

**Compliance Monitoring Event No. 8**

Compliance Monitoring Period Start Date:

08/01/2020

Compliance Monitoring Period End Date:

08/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.4	
Cadmium	=	1.7	
Copper	=	570	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Lead	=	13	
Mercury	=	1.1	
Molybdenum	=	21	
Nickel	=	38	
Selenium	<	1	
Zinc	=	830	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	50	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.4	
Cadmium	=	1.55	
Copper	=	470	
Lead	=	13	
Mercury	=	0.985	
Nickel	=	38	
Selenium	<	1	
Zinc	=	810	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	49000	

Compliance Monitoring Event No. 9

Compliance Monitoring Period Start Date:  
09/01/2020

Compliance Monitoring Period End Date:  
09/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13

([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.4	
Cadmium	=	1.6	
Copper	=	670	
Lead	=	3.4	
Mercury	=	0.66	
Molybdenum	=	20	
Nickel	=	35	
Selenium	<	1	
Zinc	=	900	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.4	
Cadmium	=	1.5	
Copper	=	660	
Lead	=	3.3	
Mercury	=	0.565	
Nickel	=	34.5	
Selenium	<	1	
Zinc	=	880	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	60000	

Compliance Monitoring Event No. 10

Compliance Monitoring Period Start Date:  
10/01/2020

Compliance Monitoring Period End Date:  
10/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO



Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	8.9	
Cadmium	=	1.2	
Copper	=	560	
Lead	=	2.9	
Mercury	=	0.78	
Molybdenum	=	18	
Nickel	=	39	
Selenium	=	6.8	
Zinc	=	770	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.46	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	8.8	
Cadmium	=	1.2	
Copper	=	550	
Lead	J (Below RL but Above MDL)	2.2	
Mercury	=	0.6	
Nickel	=	35.5	
Selenium	=	6.25	
Zinc	=	750	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	58500	

Compliance Monitoring Event No. 11      Compliance Monitoring Period Start Date: 11/01/2020      Compliance Monitoring Period End Date: 11/30/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	11	
Cadmium	=	1.2	
Copper	=	540	
Lead	=	2.7	
Mercury	=	0.69	
Molybdenum	=	18	
Nickel	=	34	
Selenium	=	13	
Zinc	=	840	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65.79	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	10.5	
Cadmium	=	1.085	
Copper	=	530	
Lead	=	2.45	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Mercury	=	0.655	
Nickel	=	34	
Selenium	=	9.65	
Zinc	=	800	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	57000	

Compliance Monitoring Event No. 12

Compliance Monitoring Period Start Date:  
12/01/2020

Compliance Monitoring Period End Date:  
12/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	12	
Cadmium	=	1.6	
Copper	=	530	
Lead	=	18	
Mercury	=	0.69	
Molybdenum	=	18	
Nickel	=	47	
Selenium	=	8.5	
Zinc	=	810	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	11	
Cadmium	=	1.55	
Copper	=	530	
Lead	=	11.3	
Mercury	=	0.62	
Nickel	=	44	
Selenium	=	8.5	
Zinc	=	810	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	54500	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

OC San is attaching an electronic version of our annual report broken into several smaller sections. Alternatively, the complete file is available at [www.ocsd.com/503](http://www.ocsd.com/503). Please contact Deirdre Bingman if you have any questions: [dbringman@ocsd.com](mailto:dbringman@ocsd.com) 714.593.7459.

**Additional Attachments**

Name	Created Date	Size
4-AppxC-PriorPlInts_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:20 PM	900.26 KB
5-AppxD-F-EPA-ADEQ-Historys_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:19 PM	1.97 MB
2b-AppxA_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:21 PM	2.51 MB

Name	Created Date	Size
2c-AppxA_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:20 PM	2.10 MB
1-MainReport-2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:21 PM	2.46 MB
2a-AppxA_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:21 PM	1.89 MB
3-AppxB_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:20 PM	138.81 KB

**Certification Information**

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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than 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. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

**Certified By:** Lan Wiborg (LWIBORG@OCSD.COM)

**Certified On:** 02/17/2021 8:59 AM

## Biosolids Annual Report Landing Page / ORANGE COUNTY SD #2

**NPDES ID:** CAL120604**Facility Status:** Active**Facility Name:** ORANGE COUNTY SD #2

10844 ELLIS AVENUE FOUNTAIN VALLEY, CA 92708-7018

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NPDES  
FORM  
6100-035UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460  
BIOSOLIDS ANNUAL REPORTForm Approved.  
OMB No. 2040-0004.  
Exp. 03/31/2022

EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_118](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118)), 503.28 ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_128](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128)), 503.48 ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_148](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148))). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_19](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19))), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (<https://www.epa.gov/npdes/npdes-state-program-information>) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge ([https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_19](https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19))' also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

**Public Availability of Information Submitted on and with General Permit Reports**

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk ([NPDESereporting@epa.gov](mailto:NPDESereporting@epa.gov) (<mailto:NPDESereporting@epa.gov>)) for further guidance.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

## Program Information

**Please select all of the following that apply to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:**

- a Class I Sludge Management Facility as defined in 40 CFR 503.9
- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

**In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?**

YES  NO

**If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).**

16607

**Reporting Period Start Date:** 01/01/2020

**Reporting Period End Date:** 12/31/2020

## Treatment Processes

**Processes to Significantly Reduce Pathogens (PSRP):**Anaerobic Digestion**Processes to Further Reduce Pathogens (PFRP):****Physical Treatment Options:**Preliminary Operations (e.g., sludge grinding, degritting, blending)Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)**Other Processes to Manage Sewage Sludge:**Methane or Biogas Capture and Recovery

## Analytical Methods

Did you or your facility collect sewage sludge or biosolids samples for laboratory analysis?  YES  NO**Analytical Methods**

- EPA Method 6010 - Arsenic (ICP-OES)
- EPA Method 6010 - Cadmium (ICP-OES)
- EPA Method 6010 - Chromium (ICP-OES)
- EPA Method 6010 - Copper (ICP-OES)
- EPA Method 6010 - Lead (ICP-OES)
- EPA Method 7471 - Mercury (CVAA)
- EPA Method 6010 - Molybdenum (ICP-OES)
- EPA Method 6010 - Nickel (ICP-OES)
- EPA Method 6010 - Selenium (ICP-OES)
- EPA Method 6010 - Zinc (ICP-OES)
- EPA Method 6010 - Beryllium (ICP-OES)
- EPA Method 351.2 - Total Kjeldahl Nitrogen
- Standard Method 4500-N - Nitrogen
- Standard Method 2540 - Total Solids
- Standard Method 2540 - Volatile Solids
- EPA Method 9045 - pH (> 7% solids)

**Other Analytical Methods**

- Other Nitrogen Analytical Method

**Other Analytical Methods Text Area:**

EPA 300.0

## Sludge Management - Land Application

ID: 003Amount: 1722Management Practice Detail: Distribution and Marketing - CompostBulk or Bag/Container: BulkHandler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

**Facility Information:**

Inland Empire Regional Composting Facility  
12645 6th Street  
Rancho Cucamonga, CA 91739

**Contact Information:**

Jeff Ziegenbein  
Site Manager  
909-993-1981  
jziegenbein@ieua.org

Pathogen Class: Class A EQ

**Sewage Sludge or Biosolids Pathogen Reduction Options:**

- [Class A-Alternative 5: PFRP 1: Composting](#)

**Sewage Sludge or Biosolids Vector Attraction Reduction Options:**

- [Option 1 - Volatile Solids Reduction](#)
- [Option 5 - Aerobic Processing \(Thermophilic Aerobic Digestion/Composting\)](#)

**Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?**

YES  NO  UNKNOWN

**Monitoring Data**

**INSTRUCTIONS:** Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_18](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18))). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

**Compliance Monitoring Periods**

**INSTRUCTIONS:** Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_116](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116))).

**Compliance Monitoring Event No. 1****Compliance Monitoring Period Start Date:**01/01/2020**Compliance Monitoring Period End Date:**01/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.7	
Cadmium	=	2.6	
Copper	=	220	
Lead	=	13	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	24	
Selenium	=	15	
Zinc	=	520	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of



the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	49.9	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.7	
Cadmium	=	2.6	
Copper	=	220	
Lead	=	13	
Mercury	<	1	
Nickel	=	24	
Selenium	=	15	
Zinc	=	520	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	32000	

#### Compliance Monitoring Event No. 2

Compliance Monitoring Period Start Date:  
02/01/2020

Compliance Monitoring Period End Date:  
02/29/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
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Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4	
Cadmium	=	1.9	
Copper	=	480	
Lead	=	13	
Mercury	<	1	
Molybdenum	=	11	
Nickel	=	18	
Selenium	=	8.8	
Zinc	=	430	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	48.7	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4	
Cadmium	=	1.9	
Copper	=	480	
Lead	=	13	
Mercury	<	1	
Nickel	=	18	
Selenium	=	8.8	
Zinc	=	430	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	33000	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date:  
03/01/2020

Compliance Monitoring Period End Date:  
03/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.2	
Cadmium	=	2.7	
Copper	=	150	
Lead	=	9.7	
Mercury	<	1	
Molybdenum	=	10	
Nickel	=	17	
Selenium	=	9.9	
Zinc	=	340	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	9.8	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	44.9	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.2	
Cadmium	=	2.7	
Copper	=	150	
Lead	=	9.7	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Mercury	<	1	
Nickel	=	17	
Selenium	=	9.9	
Zinc	=	340	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	32000	

Compliance Monitoring Event No. 4                      Compliance Monitoring Period Start Date: 04/01/2020                      Compliance Monitoring Period End Date: 04/30/2020

Do you have analytical results to report for this monitoring period?       YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.2	
Cadmium	=	2.7	
Copper	=	150	
Lead	=	9.7	
Mercury	<	1	
Molybdenum	=	12	
Nickel	=	17	
Selenium	=	9.9	
Zinc	=	340	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	50.4	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.7	
Cadmium	=	3.1	
Copper	=	160	
Lead	=	11	
Mercury	<	1	
Nickel	=	18	
Selenium	=	13	
Zinc	=	370	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	33000	

Compliance Monitoring Event No. 5

Compliance Monitoring Period Start Date:  
05/01/2020

Compliance Monitoring Period End Date:  
05/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.7	
Cadmium	=	3.1	
Copper	=	160	
Lead	=	11	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Mercury	<	1	
Molybdenum	=	6.8	
Nickel	=	18	
Selenium	=	13	
Zinc	=	370	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	48.2	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.6	
Cadmium	=	2.7	
Copper	=	190	
Lead	=	14	
Mercury	<	1	
Nickel	=	18	
Selenium	=	11	
Zinc	=	480	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	26000	

Compliance Monitoring Event No. 6                      Compliance Monitoring Period Start Date: 06/01/2020                      Compliance Monitoring Period End Date: 06/30/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.6	
Cadmium	=	2.7	
Copper	=	190	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	12	
Nickel	=	18	
Selenium	=	11	
Zinc	=	480	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55.1	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.7	
Cadmium	=	2.2	
Copper	=	180	
Lead	=	14	
Mercury	<	1	
Nickel	=	21	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	=	8.4	
Zinc	=	400	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	34000	

Compliance Monitoring Event No. 7      Compliance Monitoring Period Start Date: 07/01/2020      Compliance Monitoring Period End Date: 07/31/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.7	
Cadmium	=	2.2	
Copper	=	180	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	11	
Nickel	=	21	
Selenium	=	8.4	
Zinc	=	400	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.



Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	51.3	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.2	
Cadmium	=	2.3	
Copper	=	180	
Lead	=	10	
Mercury	<	1	
Nickel	=	16	
Selenium	=	8.6	
Zinc	=	400	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	35000	

Compliance Monitoring Event No. 8

Compliance Monitoring Period Start Date:  
08/01/2020

Compliance Monitoring Period End Date:  
08/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	3.2	
Cadmium	=	2.3	
Copper	=	180	
Lead	=	10	
Mercury	<	1	
Molybdenum	=	19	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	16	
Selenium	=	8.6	
Zinc	=	400	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	43.9	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6	
Cadmium	=	2.1	
Copper	=	300	
Lead	=	14	
Mercury	<	1	
Nickel	=	27	
Selenium	=	15	
Zinc	=	580	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	35000	

**Compliance Monitoring Event No. 9****Compliance Monitoring Period Start Date:**

09/01/2020

**Compliance Monitoring Period End Date:**

09/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6	
Cadmium	=	2.1	
Copper	=	300	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	27	
Selenium	=	15	
Zinc	=	580	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.7	
Cadmium	=	2.2	
Copper	=	220	
Lead	=	12	
Mercury	<	1	
Nickel	=	22	
Selenium	=	13	
Zinc	=	480	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	37000	

Compliance Monitoring Event No. 10 Compliance Monitoring Period Start Date: 10/01/2020 Compliance Monitoring Period End Date: 10/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.7	
Cadmium	=	2.2	
Copper	=	220	
Lead	=	12	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	22	
Selenium	=	13	
Zinc	=	480	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	44.4	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.8	
Cadmium	=	1.8	
Copper	=	330	
Lead	=	11	
Mercury	<	1	
Nickel	=	19	
Selenium	=	12	
Zinc	=	530	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	34000	

Compliance Monitoring Event No. 11

Compliance Monitoring Period Start Date:  
11/01/2020Compliance Monitoring Period End Date:  
11/30/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.8	
Cadmium	=	1.8	
Copper	=	330	
Lead	=	11	
Mercury	<	1	
Molybdenum	=	12	
Nickel	=	19	
Selenium	=	12	
Zinc	=	530	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53.9	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4	
Cadmium	=	1.6	
Copper	=	180	
Lead	=	11	
Mercury	<	1	
Nickel	=	16	
Selenium	=	8.5	
Zinc	=	400	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	35000	

**Compliance Monitoring Event No. 12**

Compliance Monitoring Period Start Date:  
12/01/2020

Compliance Monitoring Period End Date:  
12/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4	
Cadmium	=	1.6	
Copper	=	180	
Lead	=	11	
Mercury	<	1	
Molybdenum	=	14	
Nickel	=	16	
Selenium	=	8.5	
Zinc	=	400	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	45.9	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.7	
Cadmium	=	1.8	
Copper	=	190	
Lead	=	10	
Mercury	<	1	
Nickel	=	18	
Selenium	=	11	
Zinc	=	420	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	35000	

ID: 004Amount: 13137Management Practice Detail: Agricultural Land ApplicationBulk or Bag/Container: BulkHandler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

NPDES ID of handler:

## Facility Information:

Tule Ranch / Ag-Tech  
4324 E. Ashlan Ave.  
Fresno, AZ 93726

## Contact Information:

Shaen Magan  
Owner  
559-970-9432  
kurt@westexp.com

Pathogen Class: Class B

## Sewage Sludge or Biosolids Pathogen Reduction Options:

- Class B-Alternative 2 PSRP 3: Anaerobic Digestion

## Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 - Volatile Solids Reduction
- Option 10 - Sewage Sludge Timely Incorporation into Land

Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?

YES  NO  UNKNOWN

## Monitoring Data

**INSTRUCTIONS:** Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_18](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18))). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

## Compliance Monitoring Periods

**INSTRUCTIONS:** Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_116](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116))).

Compliance Monitoring Event No. 1

Compliance Monitoring Period Start Date:  
01/01/2020Compliance Monitoring Period End Date:  
01/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

## Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.



Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	12	
Cadmium	=	2.6	
Copper	=	470	
Lead	=	28	
Mercury	=	0.98	
Molybdenum	=	16	
Nickel	=	36	
Selenium	=	12	
Zinc	=	750	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.7	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	11.5	
Cadmium	=	2.55	
Copper	=	450	
Lead	=	23.5	
Mercury	J (Below RL but Above MDL)	0.514	
Nickel	=	35.5	
Selenium	=	11.5	
Zinc	=	740	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	52000	

Compliance Monitoring Event No. 2

Compliance Monitoring Period Start Date:  
02/01/2020

Compliance Monitoring Period End Date:  
02/29/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	5.6	
Cadmium	=	2.4	
Copper	=	460	
Lead	=	17	
Mercury	=	0.95	
Molybdenum	=	17	
Nickel	=	48	
Selenium	<	3.4	
Zinc	=	660	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	52.08	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	5.6	
Cadmium	=	2.2	
Copper	=	410	
Lead	=	15.5	
Mercury	=	0.79	
Nickel	=	39.5	
Selenium	<	3.4	
Zinc	=	610	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	52000	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date:

Compliance Monitoring Period End Date:

03/01/2020

03/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	3.1	
Copper	=	540	
Lead	=	19	
Mercury	=	0.67	
Molybdenum	=	20	
Nickel	=	46	
Selenium	<	0.91	
Zinc	=	780	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	61.36	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	2.85	
Copper	=	540	
Lead	=	18	
Mercury	=	0.575	
Nickel	=	43	
Selenium	<	0.91	
Zinc	=	750	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	53000	

**Compliance Monitoring Event No. 4**      **Compliance Monitoring Period Start Date:** 04/01/2020      **Compliance Monitoring Period End Date:** 04/30/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.7	
Cadmium	=	4	
Copper	=	630	
Lead	=	21	
Mercury	=	0.62	
Molybdenum	=	27	
Nickel	=	52	
Selenium	<	1.2	
Zinc	=	960	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.64	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.7	
Cadmium	=	3.35	
Copper	=	550	
Lead	=	19.5	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Mercury	=	0.52	
Nickel	=	45.5	
Selenium	<	1.2	
Zinc	=	890	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	63000	

Compliance Monitoring Event No. 5

Compliance Monitoring Period Start Date:  
05/01/2020

Compliance Monitoring Period End Date:  
05/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	2.7	
Copper	=	470	
Lead	=	22	
Mercury	=	0.6	
Molybdenum	=	20	
Nickel	=	32	
Selenium	<	0.93	
Zinc	=	850	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	56.76	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	2.45	
Copper	=	420	
Lead	=	19	
Mercury	=	0.6	
Nickel	=	28.5	
Selenium	<	0.93	
Zinc	=	740	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	52500	

**Compliance Monitoring Event No. 6****Compliance Monitoring Period Start Date:**  
06/01/2020**Compliance Monitoring Period End Date:**  
06/30/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	2.9	
Copper	=	490	
Lead	=	23	
Mercury	=	0.46	
Molybdenum	=	22	
Nickel	=	36	
Selenium	<	0.92	
Zinc	=	850	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53.66	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.3	
Cadmium	=	2.7	
Copper	=	460	
Lead	=	21.5	
Mercury	=	0.405	
Nickel	=	32.5	
Selenium	<	0.92	
Zinc	=	790	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	47500	

**Compliance Monitoring Event No. 7**

Compliance Monitoring Period Start Date:  
07/01/2020

Compliance Monitoring Period End Date:  
07/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.2	
Cadmium	=	2.4	
Copper	=	540	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	=	0.49	
Molybdenum	=	21	
Nickel	=	33	
Selenium	<	0.87	
Zinc	=	770	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.2	
Cadmium	=	2.35	
Copper	=	520	
Lead	=	18	
Mercury	=	0.47	
Nickel	=	31.5	
Selenium	<	0.87	
Zinc	=	770	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	50000	

**Compliance Monitoring Event No. 8**Compliance Monitoring Period Start Date:  
08/01/2020Compliance Monitoring Period End Date:  
08/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13



([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.2	
Cadmium	=	2.3	
Copper	=	500	
Lead	=	17	
Mercury	=	0.62	
Molybdenum	=	21	
Nickel	=	29	
Selenium	<	0.87	
Zinc	=	740	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	50	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.2	
Cadmium	=	2.25	
Copper	=	490	
Lead	=	17	
Mercury	=	0.515	
Nickel	=	28	
Selenium	<	0.87	
Zinc	=	740	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	43000	

Compliance Monitoring Event No. 9

Compliance Monitoring Period Start Date:  
09/01/2020

Compliance Monitoring Period End Date:  
09/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.2	
Cadmium	=	2.1	
Copper	=	510	
Lead	=	6.7	
Mercury	=	0.74	
Molybdenum	=	21	
Nickel	=	34	
Selenium	<	0.89	
Zinc	=	780	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.2	
Cadmium	=	2.05	
Copper	=	500	
Lead	=	6.45	
Mercury	=	0.68	
Nickel	=	32.5	
Selenium	<	0.89	
Zinc	=	770	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
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Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	49500	

Compliance Monitoring Event No. 10      Compliance Monitoring Period Start Date: 10/01/2020      Compliance Monitoring Period End Date: 10/31/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	14	
Cadmium	=	2.1	
Copper	=	530	
Lead	=	6.2	
Mercury	=	0.53	
Molybdenum	=	20	
Nickel	=	27	
Selenium	=	6.9	
Zinc	=	720	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.46	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	14	
Cadmium	=	2	
Copper	=	500	
Lead	=	6.15	
Mercury	=	0.465	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	26	
Selenium	=	6.85	
Zinc	=	710	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	53500	

Compliance Monitoring Event No. 11

Compliance Monitoring Period Start Date:  
11/01/2020Compliance Monitoring Period End Date:  
11/30/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	20	
Cadmium	=	2.3	
Copper	=	520	
Lead	=	5.9	
Mercury	=	0.84	
Molybdenum	=	22	
Nickel	=	31	
Selenium	=	7.7	
Zinc	=	850	

**Pathogen And Vector Attraction Reduction**

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65.79	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	18.5	
Cadmium	=	2.15	
Copper	=	490	
Lead	=	5.35	
Mercury	=	0.6	
Nickel	=	29.5	
Selenium	=	6.15	
Zinc	=	770	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	51000	

Compliance Monitoring Event No. 12

Compliance Monitoring Period Start Date:

12/01/2020

Compliance Monitoring Period End Date:

12/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	19	
Cadmium	=	2.6	
Copper	=	490	
Lead	=	6.9	
Mercury	=	0.49	
Molybdenum	=	22	
Nickel	=	33	
Selenium	=	8.4	
Zinc	=	800	

#### Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	16.5	
Cadmium	=	2.5	
Copper	=	450	
Lead	=	5.25	
Mercury	=	0.435	
Nickel	=	30	
Selenium	=	8.35	
Zinc	=	730	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	47000	

ID: 001

Amount: 151

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

**Facility Information:**

Synagro - AZ Soils  
5615 S. 91st Avenue  
Tolleson, AZ 85353

**Contact Information:**

Craig Geyer  
Area Director of Composting  
623-936-6328  
Cgeyer@synagro.com

Pathogen Class: Class A EQ

**Sewage Sludge or Biosolids Pathogen Reduction Options:**

- Class A-Alternative 5: PFRP 1: Composting

**Sewage Sludge or Biosolids Vector Attraction Reduction Options:**

- Option 1 - Volatile Solids Reduction
- Option 5 - Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?

YES  NO  UNKNOWN

## Monitoring Data

**INSTRUCTIONS:** Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_18](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18))). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

## Compliance Monitoring Periods

**INSTRUCTIONS:** Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_116](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116))).

Compliance Monitoring Event No. 1

Compliance Monitoring Period Start Date:

01/01/2020

Compliance Monitoring Period End Date:

01/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO

## Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	1.9	
Copper	=	440	
Lead	=	15	
Mercury	=	1.4	
Molybdenum	=	16	
Nickel	=	24	
Selenium	=	7	
Zinc	=	880	

## Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	25	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
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Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.7	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	1.9	
Copper	=	440	
Lead	=	15	
Mercury	=	1.4	
Nickel	=	24	
Selenium	=	7	
Zinc	=	880	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	34401	

**Compliance Monitoring Event No. 2**      **Compliance Monitoring Period Start Date:** 02/01/2020      **Compliance Monitoring Period End Date:** 02/29/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.3	
Cadmium	=	0.37	
Copper	=	82	
Lead	=	2.9	
Mercury	=	1.1	
Molybdenum	=	2.8	



Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	4.8	
Selenium	=	2.1	
Zinc	=	170	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	85	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	52.08	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.3	
Cadmium	=	0.37	
Copper	=	82	
Lead	=	2.9	
Mercury	=	1.1	
Nickel	=	4.8	
Selenium	=	2.1	
Zinc	=	170	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	42401	

**Compliance Monitoring Event No. 3****Compliance Monitoring Period Start Date:**

03/01/2020

**Compliance Monitoring Period End Date:**

03/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	1.2	
Copper	=	350	
Lead	=	12	
Mercury	=	1.3	
Molybdenum	=	10	
Nickel	=	18	
Selenium	=	5	
Zinc	=	670	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	160	
Salmonella	<	2	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	61.36	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	1.2	
Copper	=	350	
Lead	=	12	
Mercury	=	1.3	
Nickel	=	18	
Selenium	=	5	
Zinc	=	670	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	35914	

**Compliance Monitoring Event No. 4**

Compliance Monitoring Period Start Date:  
04/01/2020

Compliance Monitoring Period End Date:  
04/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.4	
Cadmium	=	1.5	
Copper	=	420	
Lead	=	14	
Mercury	=	1.2	
Molybdenum	=	15	
Nickel	=	22	
Selenium	=	6.9	
Zinc	=	830	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	27	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.4	
Cadmium	=	1.5	
Copper	=	420	
Lead	=	14	
Mercury	=	1.2	
Nickel	=	22	
Selenium	=	6.9	
Zinc	=	830	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	39215	

Compliance Monitoring Event No. 5

Compliance Monitoring Period Start Date:  
05/01/2020Compliance Monitoring Period End Date:  
05/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.3	
Cadmium	=	0.32	
Copper	=	79	
Lead	=	2.9	
Mercury	=	1.1	
Molybdenum	=	2.5	
Nickel	=	4.6	
Selenium	<	2	
Zinc	=	160	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	32	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	56.76	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.3	
Cadmium	=	0.32	
Copper	=	79	
Lead	=	2.9	
Mercury	=	1.1	
Nickel	=	4.6	
Selenium	<	2	
Zinc	=	160	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	40112	

**Compliance Monitoring Event No. 6**

Compliance Monitoring Period Start Date:  
06/01/2020

Compliance Monitoring Period End Date:  
06/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.9	
Cadmium	=	0.48	
Copper	=	130	
Lead	=	4.2	
Mercury	=	1	
Molybdenum	=	6.1	
Nickel	=	7.3	
Selenium	=	2.4	
Zinc	=	270	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	24	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53.66	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	1.9	
Cadmium	=	0.48	
Copper	=	130	
Lead	=	4.2	
Mercury	=	1	
Nickel	=	7.3	
Selenium	=	2.4	
Zinc	=	270	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	38113	

Compliance Monitoring Event No. 7

Compliance Monitoring Period Start Date:

Compliance Monitoring Period End Date:

07/01/2020

07/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.2	
Cadmium	=	2.9	
Copper	=	490	
Lead	=	17	
Mercury	=	1	
Molybdenum	=	20	
Nickel	=	23	
Selenium	=	10	
Zinc	=	890	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	27	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.2	
Cadmium	=	2.9	
Copper	=	490	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	=	1	
Nickel	=	23	
Selenium	=	10	
Zinc	=	890	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	40211	

Compliance Monitoring Event No. 8

Compliance Monitoring Period Start Date:  
08/01/2020Compliance Monitoring Period End Date:  
08/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	1.4	
Copper	=	430	
Lead	=	13	
Mercury	=	0.99	
Molybdenum	=	17	
Nickel	=	19	
Selenium	=	8.6	
Zinc	=	790	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	25	



Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	50	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	1.4	
Copper	=	430	
Lead	=	13	
Mercury	=	0.99	
Nickel	=	19	
Selenium	=	8.6	
Zinc	=	790	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	37501	

#### Compliance Monitoring Event No. 9

Compliance Monitoring Period Start Date:  
09/01/2020

Compliance Monitoring Period End Date:  
09/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	1.4	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Copper	=	400	
Lead	=	11	
Mercury	=	0.92	
Molybdenum	=	16	
Nickel	=	18	
Selenium	=	7.8	
Zinc	=	810	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	24	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	1.4	
Copper	=	400	
Lead	=	11	
Mercury	=	0.92	
Nickel	=	18	
Selenium	=	7.8	
Zinc	=	810	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	39901	

Compliance Monitoring Event No. 10

Compliance Monitoring Period Start Date:  
10/01/2020

Compliance Monitoring Period End Date:  
10/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.4	
Cadmium	=	1.3	
Copper	=	390	
Lead	=	11	
Mercury	=	0.79	
Molybdenum	=	18	
Nickel	=	17	
Selenium	=	8.6	
Zinc	=	800	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	28	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.46	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.4	
Cadmium	=	1.3	
Copper	=	390	
Lead	=	11	
Mercury	=	0.79	
Nickel	=	17	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	=	8.6	
Zinc	=	800	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	42111	

Compliance Monitoring Event No. 11

Compliance Monitoring Period Start Date:

11/01/2020

Compliance Monitoring Period End Date:

11/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.9	
Cadmium	=	1.3	
Copper	=	440	
Lead	=	11	
Mercury	=	0.93	
Molybdenum	=	15	
Nickel	=	19	
Selenium	=	8.6	
Zinc	=	880	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	27	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65.79	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.9	
Cadmium	=	1.3	
Copper	=	440	
Lead	=	11	
Mercury	=	0.93	
Nickel	=	19	
Selenium	=	8.6	
Zinc	=	880	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	38514	

Compliance Monitoring Event No. 12

Compliance Monitoring Period Start Date:  
12/01/2020

Compliance Monitoring Period End Date:  
12/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.1	
Cadmium	=	1.7	
Copper	=	460	
Lead	=	11	
Mercury	=	0.92	
Molybdenum	=	13	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	19	
Selenium	=	8.5	
Zinc	=	900	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	26	
Salmonella	<	1	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.1	
Cadmium	=	1.7	
Copper	=	460	
Lead	=	11	
Mercury	=	0.92	
Nickel	=	19	
Selenium	=	8.5	
Zinc	=	900	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	43216	

ID: 002

Amount: 1597

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

**NPDES ID of handler:****Facility Information:**

Liberty Compost  
12421 Holloway Road  
Lost Hills, CA 93249

**Contact Information:**

Patrick McCarthy  
Site Manager  
661-797-2914  
patrickmccarthy@mccarthyfarms.com

**Pathogen Class:** Class A EQ

**Sewage Sludge or Biosolids Pathogen Reduction Options:**

- Class A-Alternative 5: PFRP 1: Composting

**Sewage Sludge or Biosolids Vector Attraction Reduction Options:**

- Option 1 - Volatile Solids Reduction
- Option 5 - Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

**Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?**

YES  NO  UNKNOWN

## Monitoring Data

**INSTRUCTIONS:** Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_18](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18))). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

**Compliance Monitoring Periods**

**INSTRUCTIONS:** Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_116](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116))).

**Compliance Monitoring Event No. 1**

**Compliance Monitoring Period Start Date:**  
01/01/2020

**Compliance Monitoring Period End Date:**  
01/31/2020

**Do you have analytical results to report for this monitoring period?**  YES  NO

**Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]**

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.4	
Cadmium	=	4.4	
Copper	=	460	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	25	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	40	
Selenium	=	18	
Zinc	=	760	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.7	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.4	
Cadmium	=	4.4	
Copper	=	460	
Lead	=	15	
Mercury	<	1	
Nickel	=	40	
Selenium	=	18	
Zinc	=	760	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	8800	

**Compliance Monitoring Event No. 2**

Compliance Monitoring Period Start Date:

02/01/2020

Compliance Monitoring Period End Date:

02/29/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO



**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	3.3	
Copper	=	380	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	30	
Selenium	=	9.5	
Zinc	=	640	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	52.08	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	3.3	
Copper	=	380	
Lead	=	14	
Mercury	<	1	
Nickel	=	30	
Selenium	=	9.5	
Zinc	=	640	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	5400	

Compliance Monitoring Event No. 3      Compliance Monitoring Period Start Date: 03/01/2020      Compliance Monitoring Period End Date: 03/31/2020

Do you have analytical results to report for this monitoring period?     YES     NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES     NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	=	3.4	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	32	
Selenium	=	10	
Zinc	=	660	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	61.36	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	=	3.4	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Nickel	=	32	
Selenium	=	10	
Zinc	=	660	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	4300	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date:  
04/01/2020Compliance Monitoring Period End Date:  
04/30/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6	
Cadmium	=	3.4	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	32	
Selenium	=	8.9	
Zinc	=	640	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.64	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6	
Cadmium	=	3.4	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Nickel	=	32	
Selenium	=	8.9	
Zinc	=	640	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	7100	

**Compliance Monitoring Event No. 5**

Compliance Monitoring Period Start Date:  
05/01/2020

Compliance Monitoring Period End Date:  
05/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	=	40	
Copper	=	310	
Lead	=	12	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	26	
Selenium	=	8.3	
Zinc	=	550	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	56.76	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.3	
Cadmium	=	2.5	
Copper	=	310	
Lead	=	12	
Mercury	<	1	
Nickel	=	26	
Selenium	=	8.3	
Zinc	=	550	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	9700	

06/01/2020

06/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	3.3	
Copper	=	430	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	18	
Nickel	=	28	
Selenium	=	8.6	
Zinc	=	670	

#### Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	53.66	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	3.3	
Copper	=	430	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Lead	=	14	
Mercury	<	1	
Nickel	=	28	
Selenium	=	8.6	
Zinc	=	670	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	6700	

Compliance Monitoring Event No. 7

Compliance Monitoring Period Start Date:  
07/01/2020Compliance Monitoring Period End Date:  
07/31/2020Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	3.1	
Copper	=	390	
Lead	=	12	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	27	
Selenium	=	7.1	
Zinc	=	620	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.7	
Cadmium	=	3.1	
Copper	=	390	
Lead	=	12	
Mercury	<	1	
Nickel	=	27	
Selenium	=	7.1	
Zinc	=	620	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	7400	

#### Compliance Monitoring Event No. 8

Compliance Monitoring Period Start Date:  
08/01/2020

Compliance Monitoring Period End Date:  
08/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.2	
Cadmium	=	2.4	



Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Copper	=	330	
Lead	=	12	
Mercury	<	1	
Molybdenum	=	13	
Nickel	=	28	
Selenium	=	5	
Zinc	=	510	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	50	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	5.2	
Cadmium	=	2.4	
Copper	=	330	
Lead	=	12	
Mercury	<	1	
Nickel	=	28	
Selenium	=	5	
Zinc	=	510	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	6200	

Compliance Monitoring Event No. 9

Compliance Monitoring Period Start Date:  
09/01/2020

Compliance Monitoring Period End Date:  
09/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	3	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	21	
Nickel	=	31	
Selenium	=	10	
Zinc	=	650	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	3	
Copper	=	410	
Lead	=	14	
Mercury	<	1	
Nickel	=	31	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	=	10	
Zinc	=	650	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	7100	

Compliance Monitoring Event No. 10

Compliance Monitoring Period Start Date:  
10/01/2020

Compliance Monitoring Period End Date:  
10/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.7	
Cadmium	=	2.4	
Copper	=	430	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	20	
Nickel	=	32	
Selenium	=	8.5	
Zinc	=	780	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63.46	

#### Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.7	
Cadmium	=	2.4	
Copper	=	430	
Lead	=	14	
Mercury	<	1	
Nickel	=	32	
Selenium	=	8.5	
Zinc	=	780	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	7900	

Compliance Monitoring Event No. 11

Compliance Monitoring Period Start Date:  
11/01/2020

Compliance Monitoring Period End Date:  
11/30/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

YES  NO

#### Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	2.4	
Copper	=	420	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	19	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	30	
Selenium	=	8.2	
Zinc	=	640	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65.79	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	2.4	
Copper	=	420	
Lead	=	14	
Mercury	<	1	
Nickel	=	30	
Selenium	=	8.2	
Zinc	=	640	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	6600	

**Compliance Monitoring Event No. 12****Compliance Monitoring Period Start Date:**

12/01/2020

**Compliance Monitoring Period End Date:**

12/31/2020

Do you have analytical results to report for this monitoring period?  YES  NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

 YES  NO

**Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113))). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 ([http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503\\_113](http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.3	
Cadmium	=	2.1	
Copper	=	330	
Lead	=	2.5	
Mercury	<	1	
Molybdenum	=	12	
Nickel	=	22	
Selenium	=	5.3	
Zinc	=	480	

**Pathogen And Vector Attraction Reduction**

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B – Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.22	

**Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land**

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.3	
Cadmium	=	2.1	
Copper	=	330	
Lead	=	2.5	
Mercury	<	1	
Nickel	=	22	
Selenium	=	5.3	
Zinc	=	480	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	6500	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

OC San is attaching an electronic version of our annual report broken into several smaller sections. Alternatively, the complete file is available at [www.ocsd.com/503](http://www.ocsd.com/503). Please contact Deirdre Bingman if you have any questions: [dbingman@ocsd.com](mailto:dbingman@ocsd.com) 714.593.7459.

**Additional Attachments**

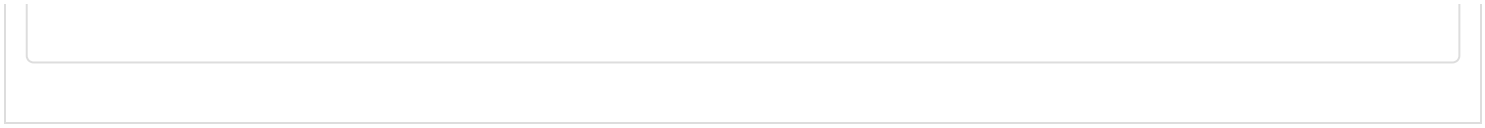
Name	Created Date	Size
3-AppxB_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:26 PM	138.81 KB
5-AppxD-F-EPA-ADEQ-Historys_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:27 PM	1.97 MB
2a-AppxA_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:23 PM	1.89 MB
4-AppxC-PriorPlnts_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:27 PM	900.26 KB
1-MainReport-2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:23 PM	2.46 MB
2b-AppxA_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:24 PM	2.51 MB
2c-AppxA_2020_Biosolids_Annual_503_Compliance_Report.pdf	02/16/2021 2:26 PM	2.10 MB

**Certification Information**

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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than 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. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

**Certified By:** Lan Wiborg (LWIBORG@OCSD.COM)

**Certified On:** 02/17/2021 9:02 AM






## **APPENDIX E**

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ARIZONA  
 DEPARTMENT OF ENVIRONMENTAL QUALITY  
 AZPDES Individual Permits Unit  
 1110 W Washington Street  
 Phoenix, Arizona 85007  
 (602) 771-4689 (voicemail) (602) 771-4505 (fax)  
 Email to: biosolids@azdeq.gov

BIOSOLIDS OR SEWAGE SLUDGE ANNUAL REPORT FORM	
<b>1. Program Information:</b> All preparers (Generators) and Land Applicators Must complete the following.	
Reporting Start Date: 1/1/2020	Reporting End Date: 12/31/2020
Date: 2/11/2021	AZPDES Permit # (if applicable ): Click here to enter text.
Company name (Preparer / Applicator): Orange County Sanitation District, Plant No. 1 and Plant No. 2	
Contact Name: Lan C. Wiborg, MPH	Title: Director of Environmental Services
Address: 10844 Ellis Ave., Fountain Valley, CA 92708	
Phone: 714-593-7450	E-mail: lwiborg@ocsd.com
Please select one of the following options pertaining to your obligation to submit a Biosolids Annual Report. My facility is a:	
<input checked="" type="checkbox"/> POTW with a design flow equal to or greater than 1 MGD Per Day <input checked="" type="checkbox"/> POTW that serves 10,000 people or more <input checked="" type="checkbox"/> Class I Sludge Management Facility as defined by 40 CFR 503.9 <input type="checkbox"/> Biosolids Applicator (Complete Section 5 only) <input type="checkbox"/> Other Click here to enter text.	
What is the estimated total of volume of biosolids or sewage sludge generated at your facility (in dry metric tons)?	
47,106	
Were all biosolids removed from your facility sent to a landfill for disposal? <b>No</b>	
If yes, provide the name and address of the landfill(s). Click here to enter text.	
<i>If all biosolids or sewage sludge was sent to a landfill for disposal, you do not need to complete the remainder of this form, as it is only applicable to facilities preparing biosolids or sewage sludge for land application.</i>	
Certification: I certify, under penalty of law, that the information and descriptions, 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.	
Signature: 	Date: 2/11/21
Title: Director of Environmental Services	

# BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

## 2. Generator/Preparers - Biosolids Storage and Treatment Processes

2.1 Please check the box next to the following biosolids or sewage sludge storage practices and treatment processes used on the sewage sludge or biosolids generated or produced at your facility during the reporting period.

### Storage Practices

- Biosolids are stored in lined lagoons or impoundments
- Biosolids stored directly on the ground

### Physical Treatment Processes

- Preliminary Operations (e.g. sludge grinding, degritting, blending)
- Thickening (e.g. gravity floatation, centrifugation, belt filter press, vacuum filter)
- Sludge lagoon

### Pathogen Reduction Operations (PSRP)

- Aerobic Digestion
- Air Drying (or "sludge drying beds")
- Anaerobic Digestion
- Lower Temperature Composting
- Lime Stabilization

### Process to Further Reduce Pathogens (PFRP)

- Higher Temperature Composting
- Heat Drying (e.g. flash dryer, spray dryer, rotary dryer)
- Heat Treatment (Liquid sewage sludge is heated to temp of 356 °F (180 °C) or higher for 30 minutes)
- Thermophilic Aerobic Digestion
- Beta Ray Irradiation
- Gamma Ray Irradiation
- Pasteurization

## BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

### 3. Generators/Preparers: Disposition of Biosolids or Sewage Treatment Sludge:

3.1 At the beginning of the year, did you have any biosolids or sewage sludge stored on site or remaining from previous years? Include any amount that is being stored anywhere. **No**

If yes provide the following information:

	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

3.2 At the end of the year, are any biosolids or sewage sludge stored on site? **No**

If yes, provide the following information:

	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

3.3 Were biosolids or sewage sludge received from another facility during the year, such as another wastewater treatment plant or another APP permitted facility for further processing? **No**

If yes provide the following information for each facility. Click the plus sign to create as many tables as needed.

Name of Facility		
Location:		
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

## BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

3.4. Were biosolids removed from your facility for land application? Include all recipients, including haulers, name, phone number, land applicators, composters, drying facilities, EQB bagging facilities, bulk composting, etc.

Name of Facility	Tule Ranch / Ag-Tech	
Management Practice Type:	Agricultural Land application	
Handler or Preparer Type:	Off-Site Third-Party Handler or Applier	
Management Practice Detail:	Agricultural Land application	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	18,635
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Alternate 5 - anaerobic digestion
Vector Attraction Reduction Method	Choose an item.	Option 1 - mass reduction
Storage Locations	Click here to enter text.	Click here to enter text.

Name of Facility	Synagro Nursery Products	
Management Practice Type:	Composting	
Handler or Preparer Type:	Off-Site Third-Party Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	16,708	Click here to enter text.
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	Choose an item.
Vector Attraction Reduction Method	Option 5 - aerobic treatment	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

Name of Facility	Synagro Arizona Soils	
Management Practice Type:	Composting	
Handler or Preparer Type:	Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	345	Click here to enter text.
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	Choose an item.
Vector Attraction Reduction Method	Option 5 - aerobic treatment	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

## BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

Name of Facility	Inland Empire Regional Composting Facility	
Management Practice Type:	Composting	
Handler or Preparer Type:	Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	1,722	<a href="#">Click here to enter text.</a>
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	<a href="#">Choose an item.</a>
Vector Attraction Reduction Method	Option 5 - aerobic treatment	<a href="#">Choose an item.</a>
Storage Locations	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>

Name of Facility	Liberty Compost	
Management Practice Type:	Composting	
Handler or Preparer Type:	Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	8,998	<a href="#">Click here to enter text.</a>
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	<a href="#">Choose an item.</a>
Vector Attraction Reduction Method	Option 5 - aerobic treatment	<a href="#">Choose an item.</a>
Storage Locations	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>

Name of Facility	Synagro South Kern Compost Manufacturing	
Management Practice Type:	Composting	
Handler or Preparer Type:	Off-Site Third-Party Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	698	<a href="#">Click here to enter text.</a>
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	<a href="#">Choose an item.</a>
Vector Attraction Reduction Method	Option 5 - aerobic treatment	<a href="#">Choose an item.</a>
Storage Locations	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>

Enter any content that you want to repeat, including other content controls. You can also insert this control around table rows in order to repeat parts of a table.

# BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

## 4. Generators/Preparers : Biosolids or Sewage Sludge Analytical Methods

Arizona regulations specify that representative samples of sewage sludge that is land applied, placed on a surface disposal site, or fired in a sewage sludge incinerator, must be collected and analyzed. These regulations specify the analytical methods that must be used to analyzed samples of sewage sludge.

<i>Parameter</i>	<i>Method Number or Author</i>	<i>Results (if tested)</i>	<i>Comments (required if other)</i>
<b>Pathogens</b>			
Ascaris ova.	No Analytical Method Used	Click here to enter text.	Click here to enter text.
Fecal Coliform	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Helminth ova.	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Salmonella sp. Bacteria	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Total Cultural Viruses	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
<b>Metals</b>			
Arsenic	EPA Method 6010 - Arsenic (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Beryllium	Other Beryllium Analytical Method	See attached OCSD Biosolids Management Compliance Report, Appendix C.	EPA Method 6010 - Beryllium
Cadmium	EPA Method 6010 - Cadmium (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Chromium	EPA Method 6010 - Chromium (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, appendices A and C.	Click here to enter text.
Copper	EPA Method 6010 - Copper (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Lead	EPA Method 6010 - Lead (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Mercury	EPA Method 7471 - Mercury (CVAA)	See attached OCSD Biosolids Management Compliance	Click here to enter text.

## BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

		Report, Appendices A, C, and D.	
Molybdenum	EPA Method 6010 - Molybdenum (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nickel	EPA Method 6010 - Nickel (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Selenium	EPA Method 6010 - Selenium (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Zinc	EPA Method 6010 - Zinc (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
<b>Nitrogen Compounds</b>			
Ammonia Nitrogen	Standard Method 4500-NH3 - Ammonia Nitrogen	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nitrate Nitrogen	Other Nitrate Nitrogen Analytical Method	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	EPA 300.0
Nitrogen	Standard Method 4500-N - Nitrogen	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Organic Nitrogen	Other Organic Nitrogen Analytical Method	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Calculation
Total Kjeldahl Nitrogen	EPA Method 351.2 - Total Kjeldahl Nitrogen	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
<b>Other Analytes</b>			
Fixed Solids	No Analytical Method Used	Click here to enter text.	Click here to enter text.
Paint Filter Test	No Analytical Method Used	Click here to enter text.	Click here to enter text.



## BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

pH	EPA Method 9045 - pH (> 7% solids)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	<a href="#">Click here to enter text.</a>
Specific Oxygen Uptake Rate	Choose an item.	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>
TCLP	EPA Method 1311 - Toxicity Characteristic Leaching Procedure	See attached OCSD Biosolids Management Compliance Report, Appendix C.	<a href="#">Click here to enter text.</a>
Temperature	No Analytical Method Used	See attached OCSD Biosolids Management Compliance Report, Appendix A.	<a href="#">Click here to enter text.</a>
Total Solids	Standard Method 2540 - Total Solids	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	<a href="#">Click here to enter text.</a>
Volatile Solids	Standard Method 2540 - Volatile Solids	See attached OCSD Biosolids Management Compliance Report, Appendix A and D.	<a href="#">Click here to enter text.</a>
No Analytical Methods Used	Choose an item.	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>



**ARIZONA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
 AZPDES Individual Permits Unit  
 1110 W Washington Street  
 Phoenix, Arizona 85007  
 (602) 771-4689 (voicemail) (602) 771-4505 (fax)  
 Email to: biosolids@azdeq.gov

**5. Land Applicators: Specific information to be completed by Land Applicators Only**

Application Site / Location	Field ID	Amount of Biosolids Applied (in dry tons)	Preparer	Pathogen Treatment Method	Vector Attraction Reduction Method	Loading Rate	Nitrogen Conc. (Organic + ammonium)	Type of Crop Grown After Application	Agronomic Rate of Crop Grown	The <u>Cumulative</u> Concentration of Pollutants (kilograms per hectare) in Soil				
<i>Example: ABC Farms, Aztec AZ</i>	<i>1A</i>	<i>350 tons</i>	<i>Aztec WWTP</i>	<i>Class B Alt. 2</i>	<i>Option 9</i>	<i>Tons or Kg/acre</i>		<i>Corn</i>						
1. Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
2. Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
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# BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

3. Click here to enter text.	to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	enter text.	enter text.	enter text.	enter text.	enter text.
											Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
4. Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
											Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
5. Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
											Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=

## **APPENDIX F**

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**Biosolids Program History**

**The history of OC San's Biosolids Program is important to understand as we plan for the future. In order to maintain the integrity of this information for future generations, the historical information is maintained in this appendix.**

### **Program History**

- In 1971, OC San entered into a long-term contract with Goldenwest Fertilizer Co., Inc., a local fertilizer manufacturer, who hauled and composted the sludge off site. OC San maintained contracts with Goldenwest Fertilizer Co. for several years until the firm lost their land lease for their composting operation in 1979. Contracts with other composting companies were also used during the 1970s.
- In 1978, after notification that their contract with Goldenwest Fertilizer Co. would be ending in 1979, OC San presented a proposal to the County of Orange to co-dispose sludge with municipal solid waste at Orange County landfills. Following approval by Orange County and the California Regional Water Quality Control Board, Santa Ana Region (CRWQCB): OC San established an air drying/composting site at Coyote Canyon landfill. OC San used this site as a sludge-drying operation until 1981 when it was converted to an open-air composting facility. This was done to reduce odors and dry the sludge to the required 50% solids content prior to being blended with municipal solid waste.
- The 50% solids requirement was set by the CRWQCB, by Order No. 79-55. In December 1982, the requirements were modified by Order No. 82-299. The new order reduced the required average solids content to 22.5%. In addition to the solids content requirements, the volume of refuse to sludge incorporated into the landfill was required to be a 10:1 ratio. After the new Order was issued and the treatment plant belt press dewatering system was installed, the air drying process was no longer needed and its operation was discontinued.
- In 1974, OC San began a cooperative regional sludge management study with the City of Los Angeles, the Los Angeles County Sanitation Districts, the Environmental Protection Agency (EPA), and the CRWQCB. By a joint powers agreement, the Regional Wastewater Solids Management Program' for the Los Angeles/Orange County Metropolitan Area (LA/OMA Project) had a separate staff and budget to develop a long-term solids reuse or disposal plan, including an implementation strategy for the Los Angeles/Orange County metropolitan areas. This extensive, six-year, \$4.0 million study, which covered all aspects of sludge processing and disposal, was completed in 1980. The conclusion was that each of the three entities would carry out its own sludge management program. For OC San, land-based disposal and beneficial reuse were the study's preferred alternatives.

However, co-combustion and enclosed mechanical in-vessel composting alternatives at OC San's Reclamation Plant No. 1 were added to OC San's LA/OMA supplemental study when the recommended composting facilities were evaluated as being difficult to site.

- In 1978 and 1983, OC San brought activated sludge facilities online at Plant No. 1 and Plant No. 2 respectively, which led to significant improvements of ocean water quality. By 1984, OC San had replaced centrifuges that dewatered to about 20% with new belt presses at both plants. The new belt presses had to dewater to at least 22.5% in order to meet landfill requirements. As a result, waste activated secondary sludges were dewatered separately and sent to a private landfill. Clean Water Grant Funds aided in the construction of the important facilities improvements at Plant No. 2 including the activated sludge plant (\$45 million) and sludge handling/process facilities (\$30 million).
- In November 1983, OC San's Boards of Directors submitted a new Residual, Solids Management Plan to the EPA. The plan included both short- and long-term compliance strategies. The short-term compliance plan involved the continued practice of trucking 22.5% solids to Coyote Canyon landfill for co-disposal with municipal waste until the landfill closed in March 1990. It also included hauling sludge to private landfills using OC San's trucks or private contractors. The long-term plan included co-disposal at county landfills and off-site reuse/management by private contractors.
- In November 1984, OC San approved an interim sludge disposal program due to the limitation of the amount of sludge this could be co-disposed at Coyote Canyon. As part of this program, an agreement was made with BKK Corporation to take the balance of the sludge to the BKK-owned and operated in West Covina (Los Angeles County). This contract expired in late 1991.
- In 1987, OC San began a facilities master planning effort that culminated in July 1989. The 1989 30-year master plan, "2020 Vision," established 11 major objectives for maintaining our excellent record of environmental and public health protection including, "Sludge Reuse: OC San will continue to promote multiple, beneficial reuse alternatives for sludge and strive to increase beneficial reuse from 60% to 100%. We will develop at least one in-county land disposal alternative as a backup to guarantee long-term reliability." The goals are summarized below:
  - Continue discussions with the County of Orange pertaining to landfill co-disposal options;
  - Pursue co-disposal options at out-of county landfills;
  - Continue and/or expand use of private contracts to reuse or dispose of sludge;
  - Pursue with Orange County Environmental Management Agency staff the use of sludge as the final cover for Coyote canyon's closure;

- Monitor the status of the proposed co-compost pilot project at Prima Deshecha landfill;
  - Initiate a regular status review of OC San management program that would provide centralized information in one location; and
  - Hire a full-time sludge manager to coordinate OC San's overall sludge reuse/disposal program (completed in August of 1989).
- The goals noted above led to a series of new recycling options starting in 1988 using three separate contractors. Two contracts were created with compost contractors, and one was created with an agricultural land fertilization contractor. Using these three contractors, OC San recycled about 50% of their sludge from 1988-1991.
  - 1990: About 50% of the sludge is processed into compost by L. Curti Truck & Equipment and by Recyc; Inc., or applied directly to agricultural land by Pima Gro Systems, Inc. The remaining 50% of the sludge is disposed in the BKK landfill in Los Angeles County. The dewatered sludge is hauled to the landfill and directly incorporated with municipal solid waste in conformance with operating requirements of the Regional Water Quality Control Board, Los Angeles.

Prior to March of 1990, landfill co-disposal was available at the Coyote Canyon landfill in Orange County and the BKK landfill. During this period 14% of the Districts' sludge went to Coyote Canyon and 36% went to BKK.

- On June 24, 1991 a new solids handling storage facility (truck loading) was placed in service. Plant No. 1 Belt Press Dewatering Building M was placed in service in February 1983. Belt Press Dewatering Building C was placed in service in October 1988. By 2018, the belt presses will be replaced by centrifuges, the DAFTs will be replaced by thickening centrifuges, and truck loading will be rehabilitated.
- Beginning in November 1991, the Districts' Biosolids Management Program achieved a milestone of 100% beneficial reuse. Beneficial reuse allows the Districts to lower its management costs and eliminate the need to take up valuable landfill space. The program consisted of compost, direct land application, and a standby agreement to landfill the biosolids in the event of an emergency. Further benefits of switching to beneficial reuse was been a reduction in disposal costs. Beneficial reuse costed the Districts less than landfilling and was expected to become even more cost effective in the future as the market for compost material grows. About 73% of the biosolids are processed into compost by Pima Gro Systems, Inc. at the Riverside Recyc compost facility. The remaining 23% is applied directly to agricultural land by Ag Tech Company in Yuma, Arizona.
- During 1993-94, only one biosolids contractor was used to haul and manage the OC San's biosolids produced by Plant No. 1. Pima Gro Systems, Inc.

hauled the biosolids to the Recyc processing site in Riverside County where it was composted. The biosolids based compost was then sold to nearby farmers as a nutrient rich soil amendment and fertilizer.

- In late 1994, the Ag Tech Company was contracted to use OC San biosolids to enhance agricultural soils, reduce the amount of irrigation water needed, and provide a much needed source of organic humus. The biosolids were injected 6 inches to 15 inches beneath the surface (in the root zone) within hours of their arrival to permitted farm lands.
- In June 1995, Bio Gro, a division of Wheelabrator Clean Water Systems, Inc., was added as a biosolids contractor. Biosolids were recycled on agricultural land in Riverside County. Pima Gro used commercial fertilizer spreaders to distribute the biosolids prior to incorporation on agricultural land in Kern County, California.
- In March 1996, Tule Ranch was added as a biosolids contractor. Pima Gro was still recycling biosolids in Kern County, California, and Bio Gro was recycling biosolids in Riverside. No composting was reported.
- In 1997, continued 100% beneficial reuse with all biosolids recycled via direct land application in Kern, Riverside, and San Diego counties.

The Districts also entered into a one-year pilot project contract with Waste Conversion Industries, Inc. (WCI) to chemically treat and heat dry the Districts' biosolids at their Corona, California site. Due to mechanical difficulties, WCI was not able to process any of the Districts' biosolids.

During fiscal year 1996-97, the Districts' biosolids management cost was reduced by approximately \$1 million from that of fiscal year 1995-96. New and amended biosolids management contracts as well increased efficiency in the Districts' belt operation contributed to the decrease in biosolids management costs. Upon the expiration of the Ag Tech contract and the termination of the Hondo contract, the Districts maintained only two active biosolids management contractors, Bio Gro and Pima Gro. In August 1996, having only two active biosolids management contractors, and receiving numerous unsolicited lower cost biosolids management proposals Districts' staff prepared and issued a Request for Proposals for Biosolids Management (RFP). The RFP was necessary in order to increase biosolids management diversity and reliability while decreasing costs. Eight biosolids management firms submitted proposals. Bio Gro proposed to maintain their existing contract, but unilaterally offered a pricing amendment, while Pima Gro submitted a new proposal that provided the Districts with the option of accepting the entire proposal or modify the pricing structure of the existing contract.



After extensive review and ranking of the proposals by staff, new contracts were offered to Tule Ranch and Waste Conversion Industries, Inc., while Bio Gro's and Pima Gro's existing contracts were amended to reflect their new price schedules.

- In 1998 through 2000, continued 100% beneficial reuse with all biosolids recycled via direct land application in Kern, Kings, San Diego and Riverside counties. Pima Gro, Bio Gro, and Tule Ranch were OC San's biosolids contractors. Small amounts of biosolids were composted at Pimo Gro's Riverside composting facility, Bio Gro's Arizona Soils facility in La Paz County, Arizona, and by Pima Gro for a UCR Extension research project in Imperial County.
- In June 2000, OC San purchased 1,800 acres of Tule Ranch's farm in Kings County, California, to provide a reliable, long-term site for treatment and land application of biosolids. Tule Ranch contracted to manage OC San's biosolids its farm at a reduced cost per ton.
- In 2001, Synagro purchased Pima Gro and Bio Gro, and OC San added Yakima as a contractor. One-hundred percent beneficial reuse via direct land application in Kern, Kings, San Diego, and Riverside. Synagro also recycled biosolids to tribal land farms in San Bernardino County, California. Small amounts were composted in Riverside and tribal land.

In 2001, Riverside County issued an ordinance that banned the use of Class B biosolids for land application but allowed limited use of Class A biosolids. In 2003, the restrictions were expanded to address nuisance problems related to Class A biosolids. Kern County's Class A requirement (Class B ban) went into effect in early 2002, and King's County followed in 2003 with only composted biosolids allowed after 2006.

- In 2002, as staff began work on a large-scale long-range biosolids management plan and contentious local county Class B land application bans were on the rise, OC San began increasing diversification away from land application and added more composting in Riverside County. Biosolids were also recycled on Fort Mohave tribal land in Mohave County, Arizona and Clark County, Nevada.
- October 28, 2002 Yakima Co. began operations at their new biosolids management site in La Paz County, Arizona. The operation involved biosolids air drying to achieve material greater than 50% total solids and use as alternative daily cover at La Paz Landfill. A total of 4,628.09 wet tons (881.7 dry metric tons) of biosolids were managed through this process through 2002. This amount represents about 2% of the total District's biosolids material beneficially reused in land application operations during 2002. The District discontinued its use of the Yakima Co. for management of its biosolids in early January 2003. The facility was later shut-down by the County of La

Paz and a lawsuit was won against the County by Yakima for \$9.2 million in damages.

- In 2002, OC San's Board of Directors voted to increase the level of treatment to full-secondary treatment requirements, which produced significantly more biosolids, especially between 2002 to 2005, until the new dewatering centrifuges could be constructed and implemented at each plant (2018-2020). OC San's focus through the 2000's was on building the water-side capital facilities to meet this increased level of service.
- In 2003, OC San continued to encourage contractors to diversify its biosolids options, especially in Arizona and Nevada. OC San started using Arizona Soils in La Paz County, Arizona on a regular basis. OC San additionally piloted Tule Ranch's subcontractor, Universal, to utilize farms in Wellton and Dateland, Arizona for land application of about 6% of OC San's biosolids. Tule Ranch's Class A lime stabilization process was started in order to continue recycling biosolids in Kern and Kings Counties. A small amount of biosolids was used in Maricopa County, Arizona.

In addition, OC San started using Solid Solutions to recycle biosolids in Nye County, Nevada to further diversify the biosolids management program. Solid Solutions was a subcontractor to California Soils Products who had a 2002 contract with OC San to render biosolids into a treated soil product.

By March 2004, OC San ceased operation in Nye County because of a hearing with complaints from affected neighbors, local competition with dairy manure, and a letter from Nevada congressional representative, Harry Reid, whose brother was a local resident. This episode also captured the attention of the 2003-04 Orange County Grand Jury who performed an investigative study and published a report: <http://www.ocgrandjury.org/pdfs/biosolids.pdf>.

OC San concluded its use of Solid Solutions in 2005 when it was clear that the Soil Products facility would not materialize.

- In December 2003, OC San finalized a Long Range Biosolids Management Plan that set forth the following recommendations to ensure a sustainable biosolids management program. These recommendations were implemented over the following decade.
  - Maintain at least three different product-manufacturing options at any given time.
  - Optimize capital and operations and maintenance (O&M) costs at OC San's treatment plants as part of implementation of the long-range plan.
  - Limit maximum participation for any market to one-half of the total biosolids production.

- Limit biosolids management contracts to a maximum of one-third of total biosolids production per merchant facility, and one-half per contractor (for contractors with multiple product manufacturing facilities).
  - For each OC San-owned product manufacturing facility, limit the size to one-half of the total biosolids production.
  - Explore funding options for in-county facilities (private capital, OC San capital, or both).
  - Allocate up to 10 percent of biosolids for participation in emerging markets.
  - Pursue Orange County-based product manufacturing facilities and maximize the use of horticultural products within the OC San service area by member agencies and through developing public-private partnerships.
  - Maintain capacity and options at OC San's Central Valley Ranch.
  - Pursue failsafe backup options (landfilling, alternative daily cover for landfills, and dedicated landfilling) to acquire a 100 percent contingency capacity.
- From **November 1991 through December 2004, OC San achieved 100 percent beneficial reuse** of its biosolids mostly through the use of land application with some composting.
  - In 2004, OC San started ramping up the land application in Arizona through Tule Ranch's Dateland operation, from about 10% in 2003 to 20% in 2004. OC San also ramped up its use of compost sites in California and Arizona from about 7% in 2003 to 20% in 2004.
  - In January 2005 and 2006, OC San sent a small fraction of its biosolids to two landfills in Arizona (Copper Mountain and South Yuma County Landfill) in order to increase the diversity of its biosolids management options, as well as address the operational needs caused by wet weather periods. The routes to these two landfills were not impacted by severe weather.
  - Starting in 2006, Synagro eliminated their last remaining OC San land application (Maricopa County), as fuel prices hit record highs, and focused on composting services.

On December 27, 2006, Synagro's new composting facility (South Kern Compost Manufacturing Facility) came online. This was the first long-term contract to become operational as an outcome of the 2003 Long-Range Biosolids Management Plan.

- In 2007, with OC San's contract that guaranteed at least 250 tons per day to Synagro's new facility, OC San's biosolids allocation to compost facilities expanded to its current level of about 50% of its total biosolids production. These facilities have extensive permitting and regulatory oversight and reporting, improved public outreach with neighbors and local communities, and have more air quality and odor process controls. Today's framework is

more sophisticated than what was in place two decades ago.

Land application was also allocated about 50% of OC San's portfolio with half of that as lime-stabilized Class A in Kern County and half as Class B in Yuma County, Arizona.

- In March 2007, OC San stopped actively using landfills and maintained this option only as a failsafe backup. OC San re-gained its **100 percent recycling performance from 2008 through 2012** (excluding some digester cleanings).
- In August 2007, the Orange County Water District's (OCWD) Advanced Water Purification Facility, later called the Ground Water Replenishment System (GWRS), started taking an average of 30 MGD of Plant No. 1's secondary treated water to test their facility in purifying the water to meet drinking water standards. OCWD uses microfiltration and reverse osmosis. The water is used as a barrier for salt water intrusion and to recharge groundwater basins starting in January 2008. About 100 MGD of OC San's secondary effluent produced about 70 MGD of purified water for reuse. Secondary effluent not sent to OC San is sent as usual to Plant No. 2 to blend with treated wastewater from Plant No. 2 prior to ocean discharge through OC San's 120-inch, 5-mile outfall. In 2015, an additional 20 MGD of influent sewage was diverted from Plant No. 2 to Plant No. 1 to support the GWRS expansion. GWRS purifies OC San's secondary treated water from Plant No. 1 to meet drinking water standards. OC San provides GWRS about 120 MGD of secondary effluent to produce purified water for reuse.
- In October 2008, Synagro's Regional Compost Facility in Riverside County stopped receiving OC San biosolids in order to prepare for the site's closure. The facility's conditional use permit was not renewed by the County of Riverside after homes were developed nearby and residents filed hundreds of odors complaints.
- In late 2008, OC San stopped using Tule Ranch's Kern County. This change in strategy culminated when the EnerTech facility started commissioning their process and Kern County required additional costly environmental studies to continue utilizing that option. OC San's Kings County property was sold in December 2011.
- As part of the 2003 Long Range Biosolids Management Plan implementation, OC San issued a series of request for proposals in 2004. As a result, EnerTech Environmental, Inc. was awarded a 225-ton guaranteed-minimum contract in 2005, which was signed in May 2006. The Rialto facility was constructed and began commissioning on November 3, 2008. OC San reallocated Tule Ranch's Kern County land application loads to EnerTech to meet contractual obligations. EnerTech's patented technology used heat and pressure to convert biosolids to a certified renewable energy pellet (E-fuel) that was burned as a replacement for coal in local cement kilns. EnerTech encountered a series of technical and permitting setbacks during the

commissioning process. During the start-up process, biosolids not processed at the Rialto facility were land-applied in Yuma County, Arizona by Terra Renewal (formerly Solid Solutions).

In November 2010, EnerTech began implementation of a Single Train Technical Plan that was anticipated to address the issues and finish the commissioning process by March 2012. After a final extension and failure to meet contractual performance requirements, OC San terminated its contract with EnerTech effective July 2012. OC San re-allocated the EnerTech loads to our two remaining contractors, Synagro (composting) and Tule Ranch (land application), at about 50% each.

- March 2009, OC San began diverted settled sludge from Plant No. 1's primary clarifiers, along with about 2.5 MGD of belt press dewatering filtrate, to Plant No. 2's headworks, where they are mixed with the influent wastewater. OC San built a new pump station at Plant No. 1, the Steve Anderson Lift Station, in order to bring more flow into Plant No. 1 to provide more flows to GWRs. However, the additional flows produced more solids than Plant No. 1 was equipped to handle during rehabilitation of its digesters and construction of its thickening and dewatering centrifuges, making the diversion of these solids to Plant No. 2 necessary. The routine diversion of primary sludge was ceased by June 2019 as part of the commissioning of the new sludge thickening and dewatering facility (P1-101) at Plant No. 1. OC San continues to divert the cationic polymers contained in the thickening and dewatering filtrate to protect GWRs from these constituents of concern.
- In March 2010, OC San sent a demonstration load to the City of Los Angeles Terminal Island Renewable Energy (TIRE) project via OC San's contract with Tule Ranch. OC San material was not compatible with their facility because the material required more screening than the City's biosolids.
- In April 2010, Tule Ranch permanently moved their land application operations from Dateland, AZ to Yuma, AZ.
- In January 2011, Tule Ranch formed an agreement with AgTech and managed OC San biosolids at two sites (Desert Ridge and AgTech) in Yuma. The following year, Tule Ranch purchased the AgTech operations and integrated the two operations. Tule Ranch has continued land applying at both Yuma sites.
- In 2012, OC San met the new NPDES ocean discharge permit's treatment requirements for secondary treatment standards. With full secondary treatment facilities operational, the focus is now on asset rehabilitation, including solids treatment facilities. The Capital Improvement Program Annual Report ([www.ocsd.com/CIPAnnual](http://www.ocsd.com/CIPAnnual)) summarizes the projects and their progress.

- In February and March 2012, OC San's Plant No. 2 biosolids exceeded the Arsenic Table 3 Exceptional Quality Limit for fields 23110121, 2311013, 2311021, and 2311022, but were below Table 1 Ceiling Concentrations. OC San's land application contractor, Tule Ranch, already reports Table 2 Cumulative Pollutant Loading Rates for all pollutants and all fields as part of their annual report to the Arizona Department of Environmental Quality.
- As directed by the Board's November 2011 Strategic Plan direction, OC San executed an agreement with Orange County Waste and Recycling (OCWR) to manage up to 100 tons per day of OC San's biosolids at the Prima Deshecha landfill located in the city of San Juan Capistrano, California. This alternative provides OC San a local biosolids management option during projected peak biosolids production period until 2017.

As a result of the landfill start-up in 2013, OC San is recycling about 94-97% of its biosolids, with the remaining biosolids going to the OCWR landfill. Landfill loads do not count towards recycling despite the indirect energy production from capturing methane onsite. OC San sends the landfill about 1 truck per day of grit and screenings (non-recyclable material) and 3 trucks of biosolids per day (5 days per week when not impacted by rain) in order to keep some revenues and resources in-County (see also OC San Biosolids Policy Board Resolution 13-03: [ocsd.com/bios-policy](http://ocsd.com/bios-policy)).

However, after residential complaints in late 2016, biosolids loads to the landfill were on hiatus until operations moved further away from the phase of the housing development that opened in Fall of 2016. With the heavy rains received December through February 2017, the landfill was operating in a different section, and OC San remained on hiatus. In February 2017, OC San received direction to cease disposal of biosolids to the landfill. The amount of biosolids landfilled impacted the city of Fountain Valley, which is one of OC San member agency. The City is required by CalRecycle to divert 50% of its solids waste from the landfill. Since OC San is located in the city of Fountain Valley (host city), the tonnage of biosolids being landfilled counted against the city's solids waste diversion goal of 50% diversion. In response, OC San stop hauling biosolids to landfill for disposal.

- In November 2016, the Kern Measure E (2006) biosolids ban was struck down. A Tulare County Superior Court judge ruled that Kern County Measure E is invalid and unlawful. The Judge found that Measure E, the ordinance banning land application of biosolids in the unincorporated areas of the county, is preempted by state recycling laws and exceeded Kern's police powers. The judge granted a permanent injunction against enforcing Measure E. In September 2017, parties signed a settlement agreement allowing the City of Los Angeles to continue to land apply biosolids.
- In May 2017, OC San completed a comprehensive Biosolids Master Plan ([ocsd.com/BMP](http://ocsd.com/BMP)) that is providing a long-term framework for a sustainable,

cost-effective biosolids management program. The Plan recommended building temperature-phased anaerobic digesters at Plant No. 2 to address seismic issues with existing digesters while creating an essentially pathogen-free biosolids product. In addition, OC San will install a food waste receiving station at Plant No. 2. The food waste facility will support state and local organics recycling goals including diverting 50% of landfill-bound organic materials (carbon-based recyclables including biosolids) by 2020 and 75% by 2025. Food waste will be co-digested to create more gas and electricity, as well as a few additional biosolids trucks. The interim food waste facility is expected to be online in 2021, and the new digestion complex is expected to start-up in 2030.

The Master Plan also reviewed and updated the former program guiding principles, and formalized an updated set as the [“Ten Tenets of OC San’s Biosolids Management Plan.”](#) See the report text for a list of the tenets and OC San’s performance relative to them.

- In 2017, Project P1-100 was completed. This project cleaned and rehabilitated each of the Plant No. 1 digesters. Routine maintenance is now targeting to cleaning digesters every five years. To that end, OC San issued a new dry-ton based bid (previous bids based on gallons) that was awarded to Synagro to clean digesters at both plants. The first 5-year cleaning was performed on Digester 7 in 2017.
- In 2017, OC San established a biosolids compost demonstration planter at Plant No. 2 as part of an existing landscaping project. The planter uses the same native plants as nearby control planters that didn’t use biosolids. Five and ten percent biosolids compost were amended into the soil. The landscape architects and soil laboratories did not want to use biosolids compost because of the salinity analyses, so OC San intends this demonstration will show the assimilative capacity of biosolids that is not reflected in the laboratory analysis. If successful, this demonstration will also show that the plants survive and thrive when the laboratory analyses counter-indicate biosolids because the analyses do not necessarily directly correlate to the actual field performance, and because biosolids is a more complicated blend of compounds that allow assimilative bonds that have remediating effects.
- Upon ceasing the use of the local landfill in late 2016, OC San has subsequently achieved **100% beneficial recycling of all biosolids**, including digester cleanings.
- Between 2017 and 2019, OC San cleaned a record of twenty (20) digesters using maintenance contracts. The contract is expected to be renewed and clean more digesters in 2019-2020:
  - Plant No. 1 – Digesters 5, 6, 7, 8, (partially 9).

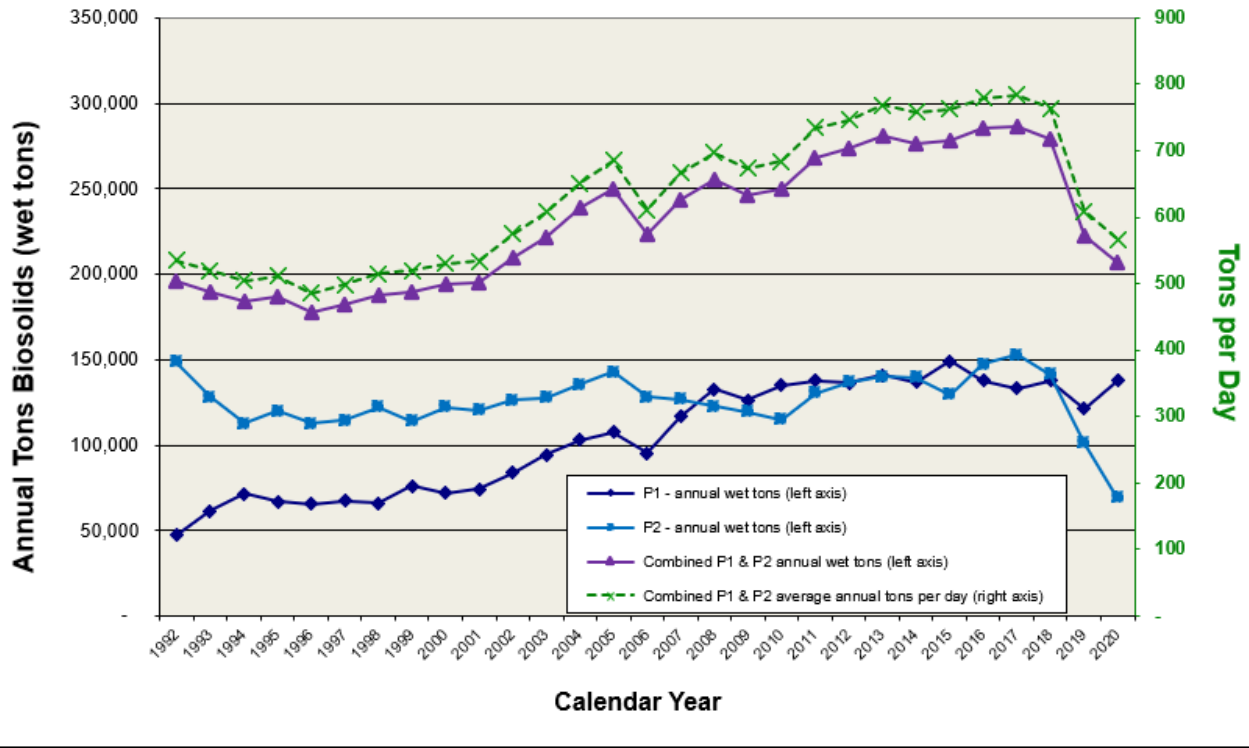
- Plant No. 2 – Digesters C, E, F, G, H, J, I, L, M, N, O, P, R, S, and T.
- In 2019, OC San finished commissioning new dewatering centrifuge facilities that replaced the dewatering belt filter presses at Plant No. 1 and at Plant No. 2. The total percent solids of dewatered biosolids increased significantly in 2019, resulting in approximately 25% less biosolids (wet weight) and trucks to manage (see Figure 1 below). The Plant No. 1 project also installed pre-digestion centrifuges to thicken primary and secondary solids, so the existing dissolved air floatation thickening units are no longer in use. Additionally, Plant No. 1 truck loading facility was rehabilitated. With the commissioning of the centrifuges, the biosolids averaged about 24% total solids at Plant No. 1 and 27% total solids at Plant No. 2. More detailed data, including monthly averages, annual totals and analytical results, can be viewed in Figure 1 below, as well as in the Report body and Appendices A, B, C, and D.
- The Irvine Ranch Water District (IRWD) historically discharged its untreated solids (sludge) to OC San. IRWD is completing commissioning its new solids treatment facility and have been ramping down the volume of solids discharged to OC San as the new facilities are coming online. OC San saw a reduction in biosolids at the end of the year and anticipate an addition reduction in early 2021 when the facilities are fully commissioned.
- In 2020, a pandemic contingency hauling plan was added into the Biosolids Section of the Integrated Emergency Response Plan in the case that COVID-19 impacted haulers.
- OC San issued a request for proposals for digester cleaning maintenance in June 2020 and awarded the multi-year contract to American Processing Group (APG) in October 2020. APG will begin cleaning digesters in January 2021. Some of this material will be sent to a landfill.
- In November 2019, OC San’s Board of Directors approved the 2019 Strategic Plan that includes **Biosolids Management Policy initiatives** to educate and advocate with the local, state, and federal agencies to assure biosolids will continue to be safely and legally used as a soil amendment and to monitor and research constituents of emerging concern such as PFAS and microplastics that may impact biosolids. In addition, OC San will stay abreast of new technology options to convert organics to energy and other regional biosolids recycling and renewable energy partnerships within Southern California.
- **Biosolids Management Policy Initiative – Biosolids Thermal Conversion:** In support of the 2017 Biosolids Master Plan and as directed by the 2019 Strategic Plan, a request for information (RFI) was issued for biosolids thermal conversion technologies in April 2020. This process continues into 2021 with contract negotiations to potentially add a pilot



pyrolysis and PFAS-reduction demonstration facility as a biosolids management option.

- **Food Waste Treatment Policy Initiative:** As part of the implementation of the 2017 Biosolids Master Plan, 2019 Strategic Plan, and as part of the General Manager’s Work Plan goal for Fiscal Year 2020-21, OC San is conducting a market assessment of available food waste feedstock for co-digestion and securing bids to construct P2-124 “Interim Food Waste Receiving Facility” at Plant No. 2. Several prospective municipal solid waste haulers have expressed interest in providing food waste feedstock, which OC San is currently evaluating. Bid opening for P2-124, Interim Food Waste Receiving Facility was in January 2021, and bid selection is in progress. This project is designed to receive approximately 150 wet tons of pre-processed food waste to be co-digested in OC San’s anaerobic digesters at Plant No. 2. The added organic feedstock will account for about a 10% increase of biogas production that will be used to generate electricity.
- **OC San’s Research Program** continues to stay abreast of advanced technologies. Participation in the International Technology Advisory Group (iTAG) is an integral part of OC San’s Research Program. The iTAG screens and evaluates potential beneficial technologies for the wastewater industry. Annually, OC San hosts the iTAG and invites other wastewater treatment agencies to learn of the most promising technologies at which time agencies may choose to pilot. OC San continues to stay current in biosolids and energy recovery technologies through this process.
- **OC San’s Awards and Honors** ([ocsd.com/about-us/awards-and-honors](https://ocsd.com/about-us/awards-and-honors)) webpage features many 2020 awards, including:
  - National Association of Clean Water Agencies (NACWA) Platinum Award and Gold Excellence in Management Recognition,
  - Utility of the Future Today Award from the Water Environment Federation for OC San efforts in energy generation and recovery, and
  - Grand prize from the American Academy of Environmental Engineers and Scientists for the Climate Resiliency and Adaptation Plan.
- In 2020, Tule Ranch-Ag Tech expanded their registered permitted fields to include the entire Desert Ridge site.

**Figure 1: Biosolids Production History**  
 January 1992 – December 2020 (not including digester cleanings)



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