YEAR 2023

Orange County Sanitation District

BIOSOLIDS MANAGEMENT COMPLIANCE REPORT

EPA 40 CFR Part 503

70TH ANNIVERSARY

OCSAN
ORANGE COUNTY SANITATION DISTRICT

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List of Abbreviations

Acronym or abbreviation	Full phrase
ADEQ	Arizona Department of Environmental Quality
CDX	Central Data Exchange
CCR	California Code of Regulations
EPA	United States Environmental Protection Agency
LEA	Local Enforcement Agency
LIMS	Laboratory Information Management Systems
MCRTs	Mean cell residence times
MGD	Million gallons per day
NOV	Notice of violation
NPDES	National Pollutant Discharge Elimination System
OC San	Orange County Sanitation District
OCWR	Orange County Waste and Recycling
QA/QC	Quality assurance and quality control
RCRA	Resource Conservation and Recovery Act
SARWQCB	Santa Ana Regional Water Quality Control Board

Glossary

Term	Definition
40 CFR Part 503	The Code of Federal Regulations Title 40 Part 503, established by the EPA, outlines the requirements and management practices for the use and disposal of sewage sludge (biosolids).
Activated Sludge Process	A secondary biological wastewater treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen and consume dissolved nutrients in the wastewater.
Anaerobic Digestion	The biochemical decomposition of organic matter in biosolids into methane gas and carbon dioxide by microorganisms in the absence of air.
Biogas	A gas that is produced by the action of anaerobic bacteria on organic waste matter in a digester tank that can be used as a fuel.
Biosolids	Biosolids are nutrient rich organic and highly treated solid materials produced by the wastewater treatment process. This high-quality product can be recycled as a soil amendment on farmland or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth
Coliform Bacteria	A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere, used as indicators of sewage pollution. E. coli are the most common bacteria in wastewater.
Collection System	In wastewater, it is the system of typically underground pipes that receive and convey sanitary wastewater or storm water.
Dry-weight basis	the weight of biosolids calculated after the material has been dried at 105° C until reaching a constant mass.

Term	Definition
Publicly Owned Treatment Works (POTW)	A municipal wastewater treatment plant.
Pretreatment	The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in Wastewater to a level authorized by OC San prior to, or in lieu of, discharge of the Wastewater into v's Sewerage System. The reduction or alteration can be obtained by physical, chemical or biological processes, by process changes, or by other means.
Pretreatment Program	A program administered by a POTW that meets the criteria established in 40 CFR 403.8 and 403.9 and which has been approved by a Regional Administrator or State Director in accordance with 40 CFR 403.11.
Secondary Treatment	Biological wastewater treatment, particularly the activated sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.
Sewerage System	Any and all facilities used for collecting, conveying, pumping, treating, and disposing of Wastewater or sludge or biosolids.
Sludge	Untreated solid material created by the treatment of wastewater.
Total Suspended Solids (TSS)	The amount of solids floating and in suspension in wastewater.
Trickling Filter	A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in wastewater as it trickles over them.
Total Toxic Organics	The summation of all quantifiable values greater than 0.01 milligrams per liter for the organics regulated by the EPA or OC San for a specific industrial category.
Wastewater	Any water that enters the sanitary sewer.
Watershed	A land area from which water drains to a particular water body. OC San’s service area is in the Santa Ana River Watershed.

Section 1. Introduction

The Orange County Sanitation District (OC San) manages biosolids, which encompass nutrient-rich organic matter recovered and derived from the wastewater treatment process. This material is beneficially used offsite (recycled), adhering to all relevant local, state, and federal regulations, as well as best management practices.

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, two sanitary districts, two water districts, and one representative from the Orange County Board of Supervisors. OC San has two operating facilities, Reclamation Plant No. 1 located in the city of Fountain Valley and Treatment Plant No. 2 located in the city of Huntington Beach, that treat wastewater from residential, commercial, and industrial sources.

In accordance with Code of Federal Regulations Title 40 Part 503 (40 CFR 503), this annual compliance report summarizes OC San's biosolids management activities and compliance data for the reporting period of January 1 to December 31, 2023.

Section 2. Biosolids Regulatory Requirements

OC San treats and manages its biosolids in accordance with OC San's National Pollution Discharge Elimination System (NPDES) Permit, Arizona Administrative Code Title 18, Ch. 9, Article 10 (R18-9), and United States Environmental Protection Agency (EPA) Code of Federal Regulations (CFR) Title 40 Part 503.

2.1 NPDES Permit Requirements

This section is a summary of the biosolids program requirements contained in OC San's NPDES Permit No. CA0110604 Order No. R8-2021-0010 (Permit), effective August 1, 2021, jointly issued by the Santa Ana Regional Water Quality Control Board (SARWQCB) and EPA (Region IX). The requirements for the biosolids program are listed in Sections VI and VII of the Permit, as well as Attachment E and Attachment G. The requirements are shown below, using the corresponding numeration found in the Permit. Each requirement is followed by a summary of the activity that has resulted in OC San's compliance with Permit requirements, or a reference may be given where additional information can be found in this annual report.

Section VI. Provisions, A. Standard Provisions, 4f.

> *Collected screenings, sludge, and other solids removed from liquid wastes shall be managed in accordance with federal, state, and local regulations (see Attachment G – Biosolids).*

OC San has an ongoing commitment to meet the provisions of this requirement, and all biosolids requirements are enforced as discussed throughout this report.

Section VII. Provisions, C. Special Provisions, 6. Special Provisions for Publicly Owned Treatment Works (POTWs), b. Biosolids

> *The Discharger shall manage its sludge and biosolids in accordance with federal regulations (40 CFR § 257, 258, and 503) and the requirements specified in Attachment G of this Order/Permit.*

OC San is dedicated to fulfilling this regulatory requirement and adherence to all biosolids requirements is stated throughout the report.

Attachment E – Monitoring and Reporting Program (MRP), XII. Reporting Requirements, D. Other Reports, 2. Biosolids Report

> *By February 19th of each year, the Discharger shall submit an annual biosolids report into USEPA's CDX electronic reporting system, with an electronic copy to the Santa Ana Water Board by email at santaana@waterboards.ca.gov, for the period covering the previous calendar year (January 1 through December 31). The annual reports shall contain, but not be limited to, the information required in the attached Biosolids Reporting Requirements (Attachment G), or an approved revised version thereof. If the Discharger is not in compliance with any conditions or requirements of this Order/Permit, the Discharger shall include the reasons for noncompliance and shall state how and when the Discharger will comply with such conditions and requirements.*

OC San was in full compliance with all conditions and requirements of the Permit. OC San has an ongoing commitment to meet the provisions of this requirement as provided in this annual report. Appendix D contains the submitted EPA CDX electronic report plus this entire report is emailed to the SARWQCB and EPA regulators.

Attachment G – Biosolids, VI. Reporting Requirements, A.

> *The report shall include the tonnages of biosolids (reported in dry metric tons, 100% dry weight), that were land applied (without further treatment by another party), land applied after further treatment by another preparer, disposed in a sludge-only surface disposal site,*

sent to a landfill for alternative cover or fill, stored on site or off site, or used for another purpose." (NPDES Permit, Attachment G, Sect. VI.A)

The land-applied biosolids tonnage information is contained in Section 4, Table 3 (Biosolids Managed Tonnage Distribution), and Appendix D (EPA Biosolids Annual Report Electronic Forms) of this annual report.

Attachment G – Biosolids, VI. Reporting Requirements, A.1.

Monitoring results from laboratories (results only, QA/QC pages not required). Copies of original lab reports must be available upon request and confirm the results are on a 100% dry weight basis. Lab reports for fecal coliforms must show the time the samples were collected, and the time analysis was started.

Laboratory reports are available on OC San's Laboratory Information Management Systems (LIMS) internal network.

Attachment G – Biosolids, VI. Reporting Requirements, A.2.

If operational parameters were used to demonstrate compliance with pathogen reduction and vector attraction reduction, the minimum mean of these parameters for each sampling period (i.e., minimum mean cell residence times (MCRTs) and temperatures).

The operational parameters used are contained in the Biosolids Monthly Compliance Reports (Appendix A) of this annual report.

Attachment G – Biosolids, VI. Reporting Requirements, A.3.

If biosolids are stored on-site or off-site for more than 2 years, the information required in 40 CFR § 503.20(b) to demonstrate that the storage is temporary.

This requirement is not applicable to OC San since no biosolids are either stored on-site or off-site.

Attachment G – Biosolids, VI. Reporting Requirements, B.

If biosolids were land applied, the Discharger shall have the person applying the biosolids submit a pdf report to USEPA and State agency showing the name of each field; location, ownership, size in acres; the dates of applications, seedings, harvesting; the tonnage applied to field, in actual and dry weight; the calculated Plant Available Nitrogen; and copies of applier's certifications of management practices and site restrictions.

OC San's contractor, Tule Ranch/Ag-Tech, is required to independently submit biosolids management information to EPA and ADEQ regulators.

2.2 Arizona Administrative Code Title 18 Requirements

R18-9-1014 – Reporting, A-D.

A person who prepares biosolids for application shall provide the applicator with the necessary information to comply with this Article including the concentration of pollutants listed in R18-9-1005 and the concentration of nitrogen in the biosolids.

A transporter shall report spills to the Department under R18- 9-1011(D).

A bulk applicator of biosolids other than exceptional quality biosolids shall provide the land owner and lessee of land application sites with information on the concentrations of the pollutants listed in R18-9-1005 and loading rates of biosolids applied to that site, and any applicable site restrictions under R18-9-1009.

A bulk applicator of biosolids other than exceptional quality biosolids shall report to the Department if 90% or more of any cumulative pollutant loading rate has been used at a site.

OC San works closely with the transporters and management facilities to ensure that exceptional quality biosolids are produced and that information regarding the concentrations of pollutants listed in R18-9-1005 are provided. In addition, OC San verifies that any violations and/or reports of spills are provided to the ADEQ.

R18-9-1014 – Reporting, F-G.

> *On or before February 19 of each year, a person preparing biosolids in a Class I Sludge Management Facility, POTW with a design flow rate equal to or greater than one million gallons per day, or POTW that serves 10,000 people or more, that are applied to land, shall, by letter or on a form provided by the Department, report to the Department all the following applicable information regarding their activities during the previous calendar year: 1. The amount of biosolids received if the preparer purchased or received the biosolids from another preparer or source; 2. The amount of biosolids produced (tons or kilograms); 3. The amount of biosolids distributed; 4. The concentrations of the pollutants listed in R18-9-1005 (in milligrams per kilogram of biosolids on a dry-weight basis); 5. The pathogen treatment methodologies used during the year, including the results; and 6. The vector attraction reduction methodologies used during the year, including the results.*
>
> *All annual self-monitoring reports shall contain the following certification statement signed by a responsible official: "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."*

OC San was in full compliance with all conditions and requirements of the Arizona Administrative Code Title 18 Requirements. OC San has an ongoing commitment to meet the provisions of this requirement as provided in this annual report. Appendix E contains the ADEQ Biosolids or Sewage Sludge Annual Report Form, which includes the certification statement above, plus this entire report is emailed to the ADEQ regulators.

2.3 40 CFR Part 503 Requirements

§ 503.18 – Reporting

> *Class I sludge management facilities, POTWs (as defined in § 501.2 of this chapter) with a design flow rate equal to or greater than one million gallons per day, and POTWs that serve 10,000 people or more shall submit a report on February 19 of each year. As of December 21, 2016, all reports submitted in compliance with this section must be submitted electronically by the operator to EPA when the Regional Administrator is the Director in compliance with this section and 40 CFR part 3 (including, in all cases, subpart D to part 3), 40 CFR 122.22, and 40 CFR part 127. Otherwise, as of December 21, 2025, or an EPA-approved alternative date (see 40 CFR 127.24(e) or (f)), all reports submitted in compliance with this section must be submitted electronically in compliance with this section and 40 CFR part 3 (including, in all cases, subpart D to 40 CFR part 3), 40 CFR 122.22, and 40 CFR part 127. 40 CFR part 127 is not intended to undo existing requirements for electronic reporting. Prior to the compliance deadlines for electronic reporting (see Table 1 in 40 CFR 127.16), the Director may also require operators to electronically submit annual reports under this section if required to do so by State law.*

OC San was in full compliance with all conditions and requirements of 40 CFR Part 503 requirements. OC San has an ongoing commitment to meet the provisions of this requirement as provided in this annual report. Appendix D contains the submitted EPA CDX electronic report plus this entire report is emailed to the EPA regulators.

Section 3. Treatment Plants

During the 2023 annual reporting period, Reclamation Plant No. 1 treated an average of 123 MGD of wastewater and Treatment Plant No. 2 treated an average of 66 MGD, producing a combined total of 193,106 wet tons of biosolids (44,668 dry metric tons), which equates to an average of 529 wet tons per day of biosolids including digester cleanings managed in compliance with "Class B" biosolids management practices as defined in 40 CFR Part 503.

Dewatered biosolids averaged 25% total solids at Plant No. 1 and 27% total solids at Plant No. 2. Detailed data, including monthly averages, annual totals, and analytical results, can be viewed in Figure 1 and Table 3 below, as well as in Appendices A, B, C, and D.

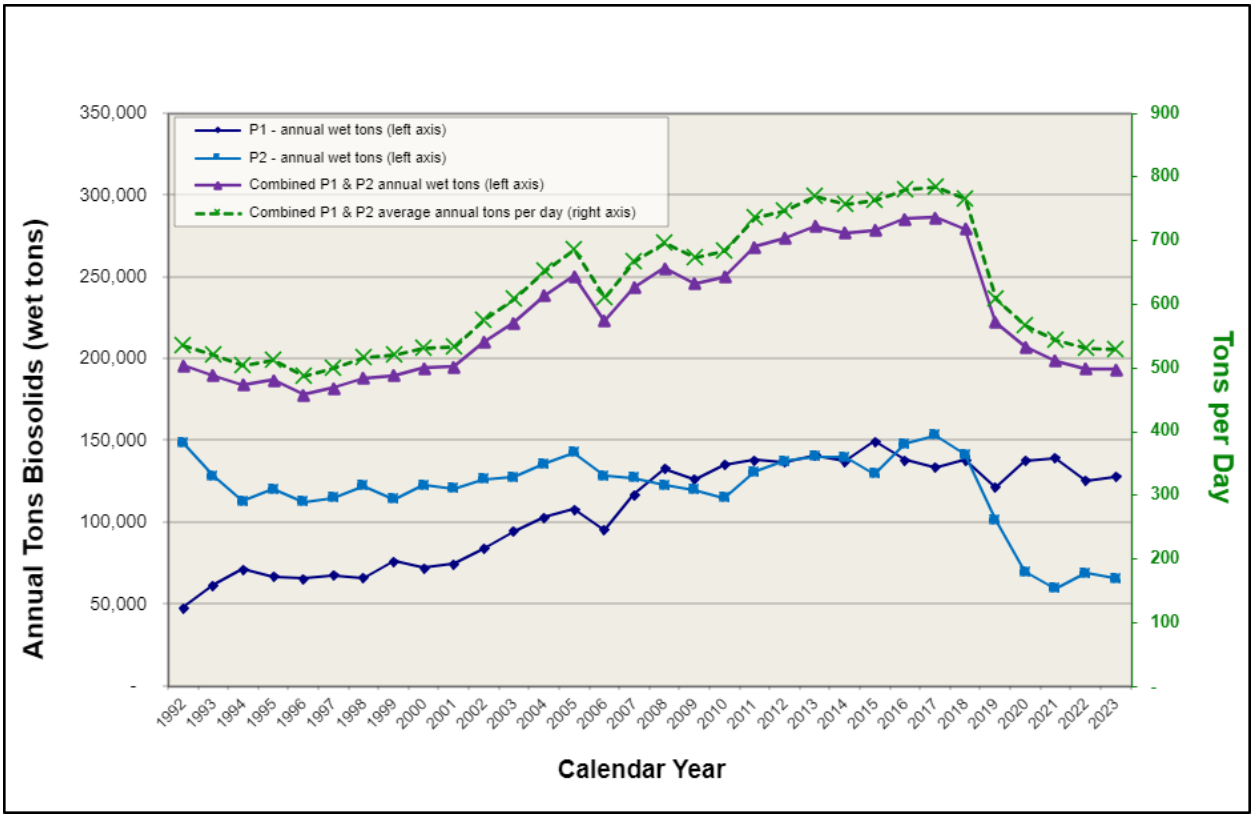

Figure 1. Biosolids Production History January 1992 – December 2023 (not including digester cleanings

For this annual reporting period, OC San's biosolids met the following regulatory standards and/or criteria:

- OC San's biosolids were 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 met 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).
- Tule Ranch-AgTech's standard operating procedure includes biosolids incorporation within six (6) hours, which meets 40 CFR Part 503.33(b)(10) requirement for "Vector Attraction Reduction". This added redundancy is critical in the case of rare events when OC San experiences challenges meeting the Vector Attraction Reduction standard at the plants.
- OC San's compost contractors' processes meet Class A standards as defined in 40 CFR Part 503.

Section 4. Biosolids Management

OC San is committed to supporting beneficial reuse of biosolids (OC San Resolution 13-03). During this reporting period, OC San recycled 100% of OC San's biosolids, which included digester cleaning materials. Refer to Figure 2 Distribution Map.

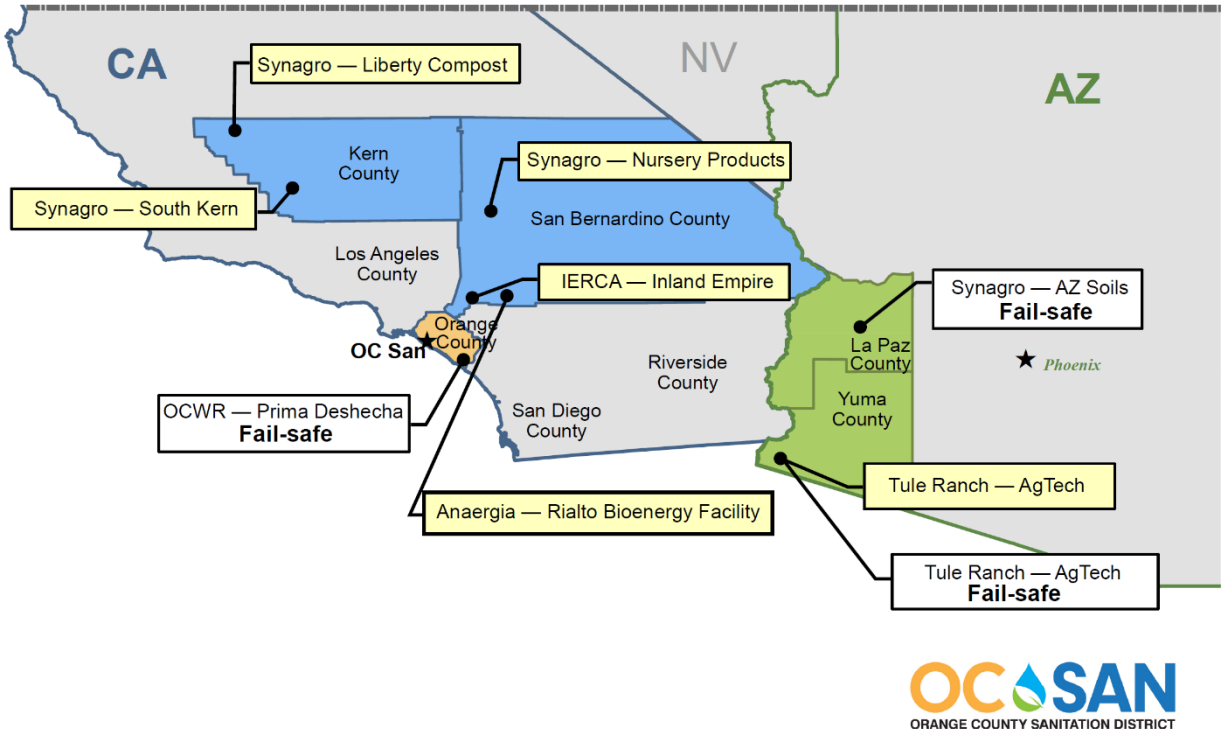

Figure 2 – Orange County Sanitation District Biosolids Allocations by Destination

The contractors listed below in Table 2 have provided OC San with biosolids management diversification and reliability. The contractors submit their annual compliance reports directly to EPA, in accordance with OC San's NPDES permit requirements.

Table 1 – Biosolids Management Contractors

Synagro - Nursery Products PO Box 1439 Helendale, CA 92342 Contact: Venny Vasquez, Manager Phone: (760) 265-5210 Email: vvasquez@SYNAGRO.com	**Synagro – South Kern Compost Manufacturing Facility** PO Box 265 Taft, CA 93268 Contact: Rob Rankin, Manager Phone: (661) 765-2200 Email: rrankin@SYNAGRO.com
Synagro - Liberty Compost 12421 Holloway Rd. Lost Hills, CA 93249 Contact: Wilson Nolan, Manager Phone: (661) 619-7320 Email: WNolan@synagro.com	**Synagro – Arizona Soils** 5615 S. 91st Avenue Tolleson, AZ 85353 Contact: Brian Millage, Manager Phone: (623) 626-0974 Email: bmillage@SYNAGRO.com

Table 1 – Biosolids Management Contractors

Tule Ranch / Ag-Tech 4324 E. Ashlan Ave. Fresno, CA 93726 Contact: Kurt Wyrick, Controller Phone: (559) 970-9432 Email: kurt@westexp.com	**Inland Empire Regional Composting Authority** 12645 6th Street Rancho Cucamonga, CA 91739 Contact: Jeff Ziegenbein, Manager Phone: (909) 993-1981 Email: jziegenbein@ieua.org
Rialto Bioenergy Facility 503 East Santa Ana Avenue, Rialto, CA 92316 Contact: John Hutson, Facility Manager Phone: (224) 500-7712 Email: John.Hutson@anaergia.com	

For this reporting period, OC San's biosolids were beneficially reused as illustrated in Table 3. 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 %
Tule Ranch AZ (land application) (wet tons)	32,398	47,879	80,277	42.0
Tule Ranch AZ (land application (dry metric tons)	7,210	11,615	18,825	
Synagro - Liberty Compost CA (wet tons)	34,702	7,966	42,668	22.0
Synagro - Liberty Compost CA (dry metric tons)	8,063	1,987	10,050	
Rialto Bioenergy Facility CA – heat drying (wet tons)	0	0	0	0.0
Rialto Bioenergy Facility CA – heat drying (dry metric tons)	0	0	0	0.0
Synagro – Nursery Products CA (compost) (wet tons)	24,587	1,060	25,647	13.0
Synagro – Nursery Products CA (compost) (dry metric tons)	5,432	252	5,684	
Synagro – South Kern – compost (wet tons)	32,507	452	32,959	17.0
Synagro – South Kern – compost (dry metric tons)	7,224	106	7,331	
Synagro – AZ Soils – compost (wet tons)	2,826	0	2,826	1.5
Synagro – AZ Soils – compost (dry metric tons)	637	0	637	
Inland Empire Regional Composting (wet tons)	495	8,236	8,730	4.5
Inland Empire Regional Composting (dry metric tons)	111	2,030	2,141	
Total Wet Tons	**127,514**	**65,592**	**193,106**	100.0
Total Dry Metric Tons	**28,679**	**15,989**	**44,668**	

Section 5. Summary of Pollutants

OC San's Biosolids Monthly Compliance Reports (Appendix A) compare the limits of the pollutants listed in 40 CFR 503 to OC San's biosolids concentrations for each plant. During this reporting period, OC San has met all regulated pollutants limits. 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.

Even though Orange County's population has grown, OC San's pretreatment program has been successful in reducing the average mass of metals entering OC San's collection system by 90% and metals discharged to the marine environment by 99% since the program's inception in 1976, thereby ensuring OC San's biosolids can be recycled to farm fields. Appendix B contains the biosolids chapter excerpt from the OC San Pretreatment Program Annual Report, Chapter 8 that includes graphs of metals in OC San's biosolids.

Section 6. Determination of Hazardousness

During this reporting period, OC San's biosolids pollutant concentrations were well below the state and federal maximum contaminant concentrations for being determined as hazardous waste. Reference OC San's biosolids monitoring data in Appendix C- Summary of Biosolids Monitoring Results.

To ensure OC San's biosolids program continues to meet the definition of biosolids per 40 CFR 503, OC San verifies its biosolids are non-hazardous annually. Although OC San does not anticipate its sewage sludge to ever be classified as hazardous, should that highly unlikely scenario occur, the affected biosolids will be managed via 40 CFR 261 and disposed of in accordance with the Resource Conservation and Recovery Act (RCRA). Relevant regulations regarding hazardous waste are also found in the California Code of Regulations (CCR) Title 22.

OC San's biosolids have been 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 and CCR Title 22.
- OC San performs annual testing of an extensive list of organic and inorganic compounds to verify the continued non-hazardousness of our biosolids (see Appendix C).
- When the compounds are non-detectable, OC San enters the method detection limit in the evaluation spreadsheet that compares the data to regulatory limits.

Section 7. Biosolids Management System

The following sections highlight OC San's continued commitment to the biosolids management system.

7.1 Communications

OC San has continued transparent communications during this reporting period. OC San posts timely updates including updated OC San resources such as listed below:

- Monthly compliance reports and data (www.ocsan.gov/nani),
- Annual compliance reports (www.ocsan.gov/503),
- Biosolids Contractor Requirements document (www.ocsan.gov/bcr), and
- Biosolids allocation map (www.ocsan.gov/map).

7.2 Contractor Oversight Program

OC San enforces a strong contractor oversight program. During this reporting period, OC San conducted the following:

- Performed six (6) contractor site inspections in 2023.
- Reviewed Local Enforcement Agency (LEA) reports and monthly contractor reports to maintain an ongoing understanding of each contractor compliance status.
- A Notice of Violation (NOV) was issued to one (1) biosolids contractors by local enforcement agencies during this annual reporting period. OC San has closely monitored the issue and maintained communications with the contractor during the process to track progress in addressing this NOV, which has been closed:
    - On September 29, 2022, Nursery Products received a cease-and-desist order from the LEA for multiple violations relating to a fire that occurred on May 28, 2022. The facility still had multiple NOVs in the beginning of 2023 originating from issues with odor and litter control along with violations that related to the facility not having the proper fire prevention and control, etc. However, the LEA rescinded their cease-and-desist order on March 29, 2023 and has since worked with several agencies to revise programs, make operational improvements, and address ongoing issues. In early 2023 the facility reopened on a limited basis and has since returned to full operational capacity.
- Performed five hauling inspections.

Environmental Services Department
10844 Ellis Avenue
Fountain Valley, California 92708-7018
714.962.2411

www.ocsan.gov

01/2024

Appendix A. Biosolids Monthly Compliance Reports, January – December 2023

Appendix Table A-1. OC San Biosolids Wet and Dry Tonnage Distribution, Reclamation Plant No. 1, Fountain Valley, CA

Biosolids Generated	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Annual Avg**
Biosolids Total Solids (%)	25	25	25	25	24	24	24	24	26	24	24	25	**25**
Management Locations	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
Tule Ranch AZ – land application (wet tons)	3,285	3,778	3,004	2,453	2,556	2,499	2,415	2,534	2,389	2,538	2,477	2,472	**32,398**
Tule Ranch AZ – land application (dry metric tons)	733	857	681	556	556	544	518	553	563	552	539	557	**7,210**
Synagro - Liberty Compost CA (wet tons)	4,383	2,571	4,165	3,344	4,023	2,929	1,932	2,739	2,087	1,381	1,530	1,478	**32,560**
Synagro - Liberty Compost CA (dry metric tons)	977	583	944	758	876	638	414	598	492	301	333	333	**7,248**
Rialto Bioenergy Facility CA – heat drying (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rialto Bioenergy Facility CA – heat drying (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Synagro – Nursery Products CA – compost (wet tons)	0	75	50	0	1,101	2,550	3,614	3,426	3,207	3,095	3,573	3,895	**24,587**
Synagro – Nursery Products CA – compost (dry metric tons)	0	17	11	0	240	555	775	748	756	674	778	878	**5,432**
Synagro – South Kern – compost (wet tons)	1,826	1,610	2,463	2,946	3,371	2,965	2,667	2,750	3,150	2,543	3,071	3,144	**32,507**
Synagro – South Kern – compost (dry metric tons)	407	365	559	668	734	646	572	601	743	554	668	709	**7,224**
Synagro – AZ Soils – compost (wet tons)	999	1,054	773	0	0	0	0	0	0	0	0	0	**2,826**
Synagro – AZ Soils – compost (dry metric tons)	223	239	175	0	0	0	0	0	0	0	0	0	**637**
Inland Empire Regional Composting (wet tons)	0	0	419	0	0	0	0	0	0	46	30	0	**495**
Inland Empire Regional Composting (dry metric tons)	0	0	95	0	0	0	0	0	0	10	6	0	**111**
Total Wet Tons	**10,493**	**9,087**	**10,875**	**8,742**	**11,051**	**10,943**	**10,628**	**11,449**	**10,833**	**9,603**	**10,680**	**10,988**	**125,372**
Total Dry Metric Tons	**2,340**	**2,061**	**2,466**	**1,982**	**2,406**	**2,382**	**2,280**	**2,501**	**2,555**	**2,090**	**2,325**	**2,477**	**27,863**
Digester Cleanings	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
Digester(s)	12										14	13	
Digester Cleaning Total Solids Percents	18										21	65*	
Synagro - Liberty Compost (compost) (wet tons)	872	0	0	0	0	0	0	0	0	0	194	1,077	**2,142**
Synagro - Liberty Compost (compost) (dry metric tons)	142	0	0	0	0	0	0	0	0	0	38	636	**816**
Digester Cleaning Total Wet Tons	**872**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**194**	**1,077**	**2,142**
Total Dry Metric Tons	**142**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**38**	**636**	**816**
Total Wet Tons (Biosolids plus Digester Cleanings)	**11,365**	**9,087**	**10,875**	**8,742**	**11,051**	**10,943**	**10,628**	**11,449**	**10,833**	**9,603**	**10,873**	**12,064**	**127,514**
Total Dry Metric Tons (Biosolids plus Digester Cleanings)	**2,483**	**2,061**	**2,466**	**1,982**	**2,406**	**2,382**	**2,280**	**2,501**	**2,555**	**2,090**	**2,362**	**3,112**	**28,679**

*The total solids analysis for the digester 13 cleaning sample was performed one day past the method-specified holding time of seven days. There is no indication of a problem with the analysis, as the quality control performed by the lab met method requirements. Since the data were received in the month following the cleaning and sampling, resampling was not possible.

Appendix Table A-2. OC San Biosolids Wet and Dry Tonnage Distribution, Wastewater Treatment Plant No. 2, Huntington Beach, CA

Biosolids Generated	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Annual Avg**
Biosolids Total Solids (%)	27	28	28	27	26	27	27	25	27	27	26	26	**27**
Management Locations	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
Tule Ranch AZ – land application (wet tons)	3,667	3,009	4,410	3,790	4,464	4,275	4,166	4,070	4,138	3,747	4,072	4,070	**47,879**
Tule Ranch AZ – land application (dry metric tons)	904	764	1,106	928	1,053	1,060	1,027	923	1,013	918	960	960	**11,615**
Synagro - Liberty Compost CA (wet tons)	1,014	632	100	682	405	632	508	280	279	51	51	304	**4,936**
Synagro - Liberty Compost CA (dry metric tons)	250	156	25	168	100	156	125	69	69	12	12	75	**1,216**
Rialto Bioenergy Facility CA – heat drying (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rialto Bioenergy Facility CA – heat drying (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Inland Empire Regional Composting (wet tons)	968	942	739	539	568	541	517	818	888	726	506	483	**8,236**
Inland Empire Regional Composting (dry metric tons)	239	232	182	133	140	133	127	202	219	179	125	119	**2,030**
Synagro – Nursery Products CA – compost (wet tons)	0	0	0	0	174	0	0	51	0	229	454	152	**1,060**
Synagro – Nursery Products CA – compost (dry metric tons)	0	0	0	0	41	0	0	12	0	56	107	36	**252**
Synagro – South Kern – compost (wet tons)	0	0	0	0	0	0	0	100	0	75	176	100	**452**
Synagro – South Kern – compost (dry metric tons)	0	0	0	0	0	0	0	23	0	18	41	24	**106**
Biosolids Total Wet Tons	**5,650**	**4,583**	**5,249**	**5,011**	**5,611**	**5,448**	**5,191**	**5,319**	**5,305**	**4,828**	**5,259**	**5,108**	**62,562**
Total Dry Metric Tons	**1,392**	**1,152**	**1,312**	**1,229**	**1,334**	**1,349**	**1,280**	**1,228**	**1,301**	**1,184**	**1,246**	**1,213**	**15,219**
Digester Cleanings	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
Digester(s)							P	R	I	J	J		
Digester Cleaning Total Solids Percents							29	29*	27	25	25		
Synagro - Liberty Compost (compost) (wet tons)	0	0	0	0	0	0	549	1,416	629	85	350	0	**3,030**
Synagro - Liberty Compost (compost) (dry metric tons)	0	0	0	0	0	0	144	370	156	20	81	0	**770**
Digester Cleaning Total Wet Tons	**0**	**0**	**0**	**0**	**0**	**0**	**549**	**1,416**	**629**	**85**	**350**	**0**	**3,030**
Total Dry Metric Tons	**0**	**0**	**0**	**0**	**0**	**0**	**144**	**370**	**156**	**20**	**81**	**0**	**770**
Total Wet Tons (Biosolids plus digester cleanings)	**5,650**	**4,583**	**5,249**	**5,011**	**5,611**	**5,448**	**5,740**	**6,735**	**5,935**	**4,913**	**5,609**	**5,108**	**65,592**
Total Dry Metric Tons (Biosolids plus digester cleanings)	**1,392**	**1,152**	**1,312**	**1,229**	**1,334**	**1,349**	**1,424**	**1,597**	**1,457**	**1,203**	**1,327**	**1,213**	**15,989**

***The total solids analysis for the digester R cleaning sample was performed two days past the method-specified holding time of seven days. There is no indication of a problem with the analysis, as the quality control performed by the lab met method requirements. Since OC San received notification after a representative sample could be collected, resampling was not possible.

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: January 1- 31, 2023

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): 01/10/23, 01/17/23

	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 (%)
Plant 1 Max/Min*	0.55	11	3.5	39	460	6.3	15	34	7.6	800	5,700	58,000	63,000	7.0	24	63
Plant 1 Avg	0.54	9.5 DNQ	3.2	37	420	5.0	15	30	5.7	750	5,400	53,000	58,000		25	
Plant 2 Max/Min*	0.74	13	1.1	41	340	3.0	17	23	6.3	600	8,500	47,000	52,000	6.9	27	62
Plant 2 Avg	0.59	11 DNQ	1.0	39	340	1.8 DNQ	16	23	4.5	600	6,700	46,000	52,000		27	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	**System Summary**	**Dig. 7**	**Dig. 8**	**Dig. 9**	**Dig. 10**	**Dig. 11**	**Dig. 12**	**Dig. 13**	**Dig. 14**	**Dig. 15**	**Dig. 16**
Minimum Mean Cell Residence Time (Min 15 days)**	24	24	24	25	25	24	Out of Service	23	23	25	Out of Service
Minimum Temperature (Min 95 °F)	98	99	99	99	98	99	Out of Service	99	100	98	Out of Service

OC San Plant 2	**System Summary**	**Dig. C**	**Dig. D**	**Dig. E**	**Dig. F**	**Dig. G**	**Dig. H**	**Dig. I**	**Dig. J**	**Dig. L**	**Dig. M**	**Dig. N**	**Dig. O**	**Dig. P**	**Dig. Q**	**Dig. R**	**Dig. S**	**Dig. T**
Minimum Mean Cell Residence Time (Min 15 days)**	21	Out of Service	Out of Service	21	Out of Service	21	21	Out of Service	Out of Service	21	21	21	Out of Service	Out of Service	Out of Service	23	21	21
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	97	Out of Service	98	98	Out of Service	Out of Service	97	98	97	Out of Service	Out of Service	Out of Service	97	99	97

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.

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: January 1- 31, 2023

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

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Christopher Myrter	Cindy Vellucci	Rachel Van Exel	Peter Park	Tom Meregillano
Christopher Myrter	Cindy Vellucci (May 8, 2023 15:53 PDT)			
Christopher Myrter	Cindy Vellucci	Rachel Van Exel	Peter Park	Tom Meregillano

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: February 1- 28, 2023

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): 02/07/23,02/14/23

	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 (%)
Plant 1 Max/Min*	0.87	9.1 DNQ	2.1	35	430	11	14	31	8.7 DNQ	670	9,500	51,000	58,000	8.1	24	66
Plant 1 Avg	0.79	8.1 DNQ	1.9 DNQ	34	410	9.2 DNQ	14	31	8.3 DNQ	670	8,500	49,000	57,000		25	
Plant 2 Max/Min*	0.61	9.5 DNQ	1.5 DNQ	35	310	8.1	17	26	8.1 DNQ	590	10,000	49,000	55,000	8.1	27	73
Plant 2 Avg	0.60	9.5 DNQ	1.5 DNQ	34	310	6.1 DNQ	17	26	7.0 DNQ	590	8,000	45,000	53,000		28	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	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**
Minimum Mean Cell Residence Time (Min 15 days)**	24	24	24	25	25	24	Out of Service	23	23	25	Out of Service
Minimum Temperature (Min 95 °F)	98	99	99	99	99	99	Out of Service	98	100	98	Out of Service

OCSD Plant 2	**System Summary**	**Dig. C**	**Dig. D**	**Dig. E**	**Dig. F**	**Dig. G**	**Dig. H**	**Dig. I**	**Dig. J**	**Dig. L**	**Dig. M**	**Dig. N**	**Dig. O**	**Dig. P**	**Dig. Q**	**Dig. R**	**Dig. S**	**Dig. T**
Minimum Mean Cell Residence Time (Min 15 days)**	21	Out of Service	Out of Service	21	Out of Service	21	21	Out of Service	Out of Service	21	21	21	23	Out of Service	Out of Service	Out of Service	21	21
Minimum Temperature (Min 95 °F)	96	Out of Service	Out of Service	97	Out of Service	98	96	Out of Service	Out of Service	97	97	96	96	Out of Service	Out of Service	Out of Service	98	97

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,
Monitoring Period: February 1- 28, 2023

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
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Lan C. Wiborg
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lwiborg@ocsan.gov
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Cindy Vellucci (May 16, 2023 08:33 PDT)	Christopher Myrter	Rachel Van Exel	Peter Park	Tom Meregillano
Cindy Vellucci	Christopher Myrter	Rachel Van Exel	Peter Park	Tom Meregillano

Biosolids Monthly Compliance Report

ORANGE COUNTY SANITATION DISTRICT

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: March 1- 31, 2023

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): 03/07/23, 03/14/23

	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 (%)
Plant 1 Max/Min*	0.77	7.6 DNQ	2.6	39	390	13	17	36	9.6 DNQ	680	9,200	55,000	64,000	7.6	25	62
Plant 1 Avg	0.66	7.1 DNQ	2.4	39	390	11	17	33	8.5 DNQ	670	8,700	50,000	59,000		25	
Plant 2 Max/Min*	0.56	8.4 DNQ	2.2	35	310	10	18	29	8.0 DNQ	590	8,300	45,000	49,000	7.5	27	70
Plant 2 Avg	0.50	8.2 DNQ	2.1	35	310	9.9	18	27	7.4 DNQ	580	6,100	43,000	49,000		28	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days)**	23	23	23	23	24	23	Out of Service	22	22	24	Out of Service
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	Out of Service	100	100	99	Out of Service

OC San Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
Minimum Mean Cell Residence Time (Min 15 days)**	20	Out of Service	Out of Service	20	Out of Service	20	20	Out of Service	Out of Service	20	20	20	20	Out of Service	Out of Service	Out of Service	21	20
Minimum Temperature (Min 95 °F)	96	Out of Service	Out of Service	98	Out of Service	98	96	Out of Service	Out of Service	98	98	97	96	Out of Service	Out of Service	Out of Service	99	97

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.

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: March 1- 31, 2023

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
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Operations Manager — (714) 593-7081

Lan C. Wiborg — lwiborg@ocsan.gov
Environmental Services Director — (714) 593-7540

Cindy Vellucci	Christopher Myrter	Rachel Van Exel	Peter Park	Tom Meregillano
Cindy Vellucci (Jun 14, 2023 14:39 PDT)				
Cindy Vellucci	Christopher Myrter	Rachel Van Exel	Peter Park	Tom Meregillano

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: April 1- 30, 2023

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): 04/04/23, 04/11/23

	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 (%)
Plant 1 Max/Min*	0.87	10 DNQ	6.1	43	400	12	17	38	11 DNQ	730	7,300	57,000	63,000	7.7	25	67
Plant 1 Avg	0.87	10 DNQ	4.6	42	400	10	17	36	9.9 DNQ	720	6,600	54,000	60,000		25	
Plant 2 Max/Min*	0.58	14	6.9	40	340	11	24	31	11	660	5,100	48,000	51,000	7.6	27	70
Plant 2 Avg	0.51	14	4.9	38	330	9.2	23	29	9.7 DNQ	660	4,100	42,000	46,000		27	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days)**	24	25	25	25	25	24	Out of Service	23	23	25	30
Minimum Temperature (Min 95 °F)	97	100	100	100	97	100	Out of Service	100	100	100	99

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

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.

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: April 1- 30, 2023

Certifications:

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Cindy Vellucci (Aug 29, 2023 13:47 PDT)	Christopher Myrter	Rachel Van Exel	Jackie Lerma (Aug 30, 2023 13:31 PDT)	Tom Meregillano
Cindy Vellucci	Christopher Myrter	Rachel Van Exel	Jackie Lerma	Tom Meregillano

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: May 1- 31, 2023

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): 05/02/23, 05/09/23

	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 (%)
Plant 1 Max/Min*	0.68	9.3 DNQ	3.5	39	450	12	19	36	11 DNQ	760	6,400	70,000	76,000	7.2	24	63
Plant 1 Avg	0.59	9.2 DNQ	3.0	36	440	11	19	33	11 DNQ	750	5,900	64,000	69,000		24	
Plant 2 Max/Min*	0.52	11 DNQ	3.8	40	350	9.5	25	30	12	680	4,600	61,000	64,000	7.3	25	68
Plant 2 Avg	0.44	11 DNQ	2.9	35	350	8.8	24	28	11 DNQ	680	4,000	53,000	57,000		26	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	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**
Minimum Mean Cell Residence Time (Min 15 days)**	27	28	28	27	30	26	Out of Service	26	26	28	25
Minimum Temperature (Min 95 °F)	98	100	100	99	98	99	Out of Service	100	100	100	101

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

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.

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: May 1- 31, 2023

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
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Cindy Vellucci	Christopher Myrter	Rachel Van Exel	Jackie Lerma	Tom Meregillano
Cindy Vellucci (Sep 7, 2023 13:13 PDT)			Jackie Lerma (Sep 13, 2023 09:23 PDT)	
Cindy Vellucci	Christopher Myrter	Rachel Van Exel	Jackie Lerma	Tom Meregillano

OCSAN
ORANGE COUNTY SANITATION DISTRICT

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, 2023

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): 06/06/23, 06/13/23

	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 (%)
Plant 1 Max/Min*	0.68	9.8 DNQ	<0.68	39	470	11	23	29	8.8 DNQ	850	14,000	36,000	50,000	7.4	24	60
Plant 1 Avg	0.57	9.3 DNQ	<0.68	38	440	11	22	28	8.7 DNQ	780	13,000	34,000	47,000		24	
Plant 2 Max/Min*	0.45	13	<0.59	48	360	12	30	26	8.6 DNQ	710	7,400	45,000	52,000	7.1	27	63
Plant 2 Avg	0.41	13	<0.59	47	360	12	30	26	8.0 DNQ	710	5,900	45,000	50,000		27	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	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**
Minimum Mean Cell Residence Time (Min 15 days)**	28	28	29	28	28	26	Out of Service	26	27	28	26
Minimum Temperature (Min 95 °F)	98	99	100	100	100	100	Out of Service	100	100	100	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**
Minimum Mean Cell Residence Time (Min 15 days)**	20	Out of Service	Out of Service	20	Out of Service	20	20	Out of Service	Out of Service	20	20	20	19	Out of Service	Out of Service	Out of Service	20	20
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	98	Out of Service	98	98	Out of Service	Out of Service	99	98	98	97	Out of Service	Out of Service	Out of Service	99	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.

OCSAN
ORANGE COUNTY SANITATION DISTRICT

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, 2023

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

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Cindy Vellucci Cindy Vellucci (Sep 27, 2023 08:49 PDT)	Christopher Myrter	Rachel Van Exel	Jackie Lerma Jackie Lerma (Sep 27, 2023 13:02 PDT)	Tom Meregillano
Cindy Vellucci	Christopher Myrter	Rachel Van Exel	Jackie Lerma	Tom Meregillano

OCSAN
ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: July 1- 31, 2023

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): 7/11/23, 07/17/23 (Plant 1); 07/11/23, 07/18/23 (Plant 2)

	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 (%)
Plant 1 Max/Min*	0.59	6.3 DNQ	3.3	41	420	11	18	40	8.3 DNQ	710	6,700	54,000	59,000	7.9	24	63
Plant 1 Avg	0.57	6.1 DNQ	3.2	40	410	11	18	37	8.2 DNQ	700	5,900	51,000	57,000		24	
Plant 2 Max/Min*	0.57	7.9 DNQ	3.7	53	350	9.8	25	32	7.9 DNQ	720	5,400	53,000	57,000	7.4	27	63
Plant 2 Avg	0.50	7.2 DNQ	3.4	52	340	9.2	25	30	6.8 DNQ	680	4,600	51,000	56,000		27	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	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
Minimum Mean Cell Residence Time (Min 15 days)**	29	28	29	28	28	26	Out of Service	26	26	28	30
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	Out of Service	100	100	100	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
Minimum Mean Cell Residence Time (Min 15 days)**	19	Out of Service	Out of Service	19	Out of Service	20	20	Out of Service	Out of Service	19	19	19	19	Out of Service	Out of Service	Out of Service	20	19
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	98	Out of Service	99	97	Out of Service	Out of Service	98	98	98	98	Out of Service	Out of Service	Out of Service	99	98

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.

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: July 1- 31, 2023

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ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: August 1- 31, 2023

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): 8/8/23, 8/22/23

	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 (%)
Plant 1 Max/Min*	0.64	6.0 DNQ	4.0	44	480	16	14	33	7.2 DNQ	800	7,600	47,000	55,000	7.5	24	67
Plant 1 Avg	0.56	6.0 DNQ	3.6	38	440	14	14	32	6.2 DNQ	740	6,400	47,000	54,000		24	
Plant 2 Max/Min*	0.49	9.5 DNQ	4.5	58	400	13	21	34	7.8 DNQ	780	6,100	48,000	53,000	7.6	24	57
Plant 2 Avg	0.46	8.6 DNQ	4.2	54	370	12	21	33	7.0 DNQ	720	5,700	46,000	52,000		25	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	**System Summary**	**Dig. 7**	**Dig. 8**	**Dig. 9**	**Dig. 10**	**Dig. 11**	**Dig. 12**	**Dig. 13**	**Dig. 14**	**Dig. 15**	**Dig. 16**
Minimum Mean Cell Residence Time (Min 15 days)**	27	27	27	26	26	25	Out of Service	25	25	27	28
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	Out of Service	100	100	100	99

OC San Plant 2	**System Summary**	**Dig. C**	**Dig. D**	**Dig. E**	**Dig. F**	**Dig. G**	**Dig. H**	**Dig. I**	**Dig. J**	**Dig. L**	**Dig. M**	**Dig. N**	**Dig. O**	**Dig. P**	**Dig. Q**	**Dig. R**	**Dig. S**	**Dig. T**
Minimum Mean Cell Residence Time (Min 15 days)**	21	Out of Service	Out of Service	21	Out of Service	21	21	Out of Service	Out of Service	20	21	21	20	Out of Service	Out of Service	Out of Service	21	21
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	98	Out of Service	99	98	Out of Service	Out of Service	98	99	99	99	Out of Service	Out of Service	Out of Service	99	98

DNQ (Detected, Not Quantified) represents estimated values above the method detection limit (MDL), but below the reporting limit (RL).
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** 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,
Monitoring Period: August 1- 31, 2023

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ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: September 1- 30, 2023

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): 09/19/23

	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 (%)
Plant 1 Max/Min*	0.51	5.8 DNQ	3.5	38	370	9.7	13	28	5.8 DNQ	660	10,000	44,000	54,000	7.7	26	71
Plant 1 Avg	0.51	5.8 DNQ	3.5	38	370	9.7	13	28	5.8 DNQ	660	10,000	44,000	54,000		26	
Plant 2 Max/Min*	0.36	7.4 DNQ	2.7	45	310	11	17	30	6.3 DNQ	670	10,000	38,000	48,000	7.7	27	72
Plant 2 Avg	0.36	7.4 DNQ	2.7	45	310	11	17	30	6.3 DNQ	670	10,000	38,000	48,000		27	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	**System Summary**	**Dig. 7**	**Dig. 8**	**Dig. 9**	**Dig. 10**	**Dig. 11**	**Dig. 12**	**Dig. 13**	**Dig. 14**	**Dig. 15**	**Dig. 16**
Minimum Mean Cell Residence Time (Min 15 days)**	25	26	26	25	25	24	Out of Service	26	24	25	26
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	Out of Service	100	100	100	99

OC San Plant 2	**System Summary**	**Dig. C**	**Dig. D**	**Dig. E**	**Dig. F**	**Dig. G**	**Dig. H**	**Dig. I**	**Dig. J**	**Dig. L**	**Dig. M**	**Dig. N**	**Dig. O**	**Dig. P**	**Dig. Q**	**Dig. R**	**Dig. S**	**Dig. T**
Minimum Mean Cell Residence Time (Min 15 days)**	21	Out of Service	Out of Service	21	Out of Service	21	21	Out of Service	Out of Service	21	21	21	21	Out of Service	27	Out of Service	21	21
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	99	Out of Service	99	99	Out of Service	Out of Service	98	98	99	98	Out of Service	98	Out of Service	98	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).
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ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: September 1- 30, 2023

Certifications:

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ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: October 1- 31, 2023

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): 10/03/23,10/10/23

	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 (%)
Plant 1 Max/Min*	0.49	6.5 DNQ	3.8	49	450	13	16	45	7.8 DNQ	810	5,800	49,000	53,000	7.9	24	65
Plant 1 Avg	0.47	6.2 DNQ	3.7	49	450	13	16	40	6.4 DNQ	800	5,000	48,000	53,000		24	
Plant 2 Max/Min*	0.56	7.4 DNQ	2.9	59	410	13	21	45	8.9 DNQ	860	4,800	49,000	52,000	7.7	27	64
Plant 2 Avg	0.50	7.4 DNQ	2.9	55	390	13	20	43	6.7 DNQ	820	4,100	42,000	46,000		27	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	**System Summary**	**Dig. 7**	**Dig. 8**	**Dig. 9**	**Dig. 10**	**Dig. 11**	**Dig. 12**	**Dig. 13**	**Dig. 14**	**Dig. 15**	**Dig. 16**
Minimum Mean Cell Residence Time (Min 15 days)**	25	26	26	25	25	24	28	Out of Service	24	26	26
Minimum Temperature (Min 95 °F)	99	99	100	100	100	100	100	Out of Service	100	100	99

OC San Plant 2	**System Summary**	**Dig. C**	**Dig. D**	**Dig. E**	**Dig. F**	**Dig. G**	**Dig. H**	**Dig. I**	**Dig. J**	**Dig. L**	**Dig. M**	**Dig. N**	**Dig. O**	**Dig. P**	**Dig. Q**	**Dig. R**	**Dig. S**	**Dig. T**
Minimum Mean Cell Residence Time (Min 15 days)**	25	Out of Service	Out of Service	25	Out of Service	25	25	Out of Service	Out of Service	25	25	25	25	Out of Service	26	Out of Service	25	25
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	99	Out of Service	99	99	Out of Service	Out of Service	99	99	98	99	Out of Service	99	Out of Service	99	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.

ORANGE COUNTY SANITATION DISTRICT

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Sampling date(s): 11/07/23,11/15/23 (Plant 1),11/07/23, 11/14/23 (Plant 2)

	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 (%)
Plant 1 Max/Min*	0.78	<5.9	4.1	51	420	13	15	45	7.8 DNQ	760	7,800	49,000	55,000	7.7	24	62
Plant 1 Avg	0.62	<5.9	2.4 DNQ	48	390	12	13	43	7.3 DNQ	690	7,100	47,000	54,000		24	
Plant 2 Max/Min*	0.77	7.1 DNQ	2.5	60	330	13	15	34	8.9 DNQ	680	7,300	43,000	49,000	7.8	26	60
Plant 2 Avg	0.59	6.3 DNQ	1.6 DNQ	57	300	12	14	33	7.5 DNQ	630	6,500	41,000	48,000		26	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days)**	25	26	26	25	25	23	25	Out of Service	Out of Service	25	26
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	100	Out of Service	Out of Service	100	99

OC San Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
Minimum Mean Cell Residence Time (Min 15 days)**	26	Out of Service	Out of Service	25	Out of Service	26	25	Out of Service	Out of Service	25	26	26	25	Out of Service	27	Out of Service	25	26
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	99	Out of Service	99	99	Out of Service	Out of Service	99	99	99	98	Out of Service	99	Out of Service	99	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.

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ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

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Sampling date(s): 12/05/23,12/12/23

	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 (%)
Plant 1 Max/Min*	0.52	6.8 DNQ	3.9	38	430	13	13	39	5.4 DNQ	740	6,800	46,000	52,000	7.7	25	65
Plant 1 Avg	0.48	6.7 DNQ	3.8	38	420	7.3 DNQ	13	36	5.1 DNQ	730	6,100	46,000	52,000		25	
Plant 2 Max/Min*	0.75	8.7 DNQ	2.2	49	290	11	14	31	5.7 DNQ	630	6,300	49,000	55,000	7.8	25	64
Plant 2 Avg	0.64	8.6 DNQ	2.2	48	290	6.3 DNQ	14	29	5.2 DNQ	620	5,300	47,000	52,000		26	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days)**	25	25	25	25	25	23	25	Out of Service	Out of Service	25	25
Minimum Temperature (Min 95 °F)	99	99	100	100	100	100	100	Out of Service	Out of Service	100	100

OC San Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
Minimum Mean Cell Residence Time (Min 15 days)**	25	Out of Service	Out of Service	25	Out of Service	25	25	Out of Service	Out of Service	25	25	25	25	Out of Service	25	Out of Service	25	25
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	98	Out of Service	98	99	Out of Service	Out of Service	98	99	97	97	Out of Service	99	Out of Service	99	99

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Appendix B. Pretreatment Program Annual Report, Chapter 8 Solids Management Program

Chapter 8. Solids Management Program

8.1 Introduction

This section provides an overview of OC San's Biosolids Program, focusing on 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 OC San'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.

OC San's annual biosolids compliance report was completed, submitted to regulators, and posted online in February 2023. Visit www.ocsan.gov/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 OC San's biosolids. OC San's pretreatment program has been extremely effective in reducing and maintaining levels of pollutants (e.g., OC San's influent sewage meets drinking water standards for the biosolids monitoring metals). The ceiling concentrations and EQ concentrations promulgated by the US EPA's biosolids regulations (40 CFR 503) are presented in Figure 8-1 through Figure 8-10 as a reference. For FY 2022/23, OC San biosolids met EQ limits for all the regulated parameters as shown in Table 8.1.

Table 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2022/23, in Milligrams per Dry Kilogram
Orange County Sanitation District, Resource Protection Division

			Plant 1			Plant 2		
Metal	FY	EQ Limit	Min	Max	Avg	Min	Max	Avg
Arsenic	2012-13	41	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
	2020-21*		1.3	14	8.9	1.2	19	12
	2021-22		7.3	10.5	8.6	9.8	13.5	11
	2022-23		7.1	10	8.8	8.2	14	11
Cadmium	2012-13	39	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
	2020-21*		0.9	1.6	1.3	1.6	2.5	2.0
	2021-22		0.6	1.5	1.1	1.1	1.4	1.3
	2022-23		0.7	4.6	1.9	0.6	4.9	1.7
Chromium	2012-13	**	42	56	49	42	59	49
	2013-14		39	52	45	40	53	46
	2014-15		30	51	40	34	70	46

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Orange County Sanitation District, Resource Protection Division

			Plant 1			Plant 2		
Metal	FY	EQ Limit	Min	Max	Avg	Min	Max	Avg
	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
	2020-21		43	54	48	42	65	51
	2021-22		34	49	41	41	52	45
	2022-23		34	42	37	34	51	42
	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
Copper	2017-18	1,500	320	500	420	380	590	460
	2018-19		355	600	470	335	665	510
	2019-20		440	600	530	410	590	490
	2020-21		470	660	530	420	520	460
	2021-22		425	550	490	320	440	370
	2022-23		385	500	450	305	375	340
	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
Lead	2017-18*	300	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
	2020-21		2.2	15	6.8	2.7	18	7.5
	2021-22		4.9	8.1	6.2	2.7	7.4	4.6
	2022-23		2.7	11	6.4	0.8	11	4.7
	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
Mercury	2017-18	17	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
	2020-21		0.5	1.0	0.7	0.4	0.9	0.6
	2021-22		0.5	0.8	0.6	0.4	1	0.5
	2022-23		0.5	0.9	0.7	0.4	0.7	0.5
	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
Molybdenum	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

Table 8.1 **Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2022/23, in Milligrams per Dry Kilogram**
Orange County Sanitation District, Resource Protection Division

			Plant 1			Plant 2		
Metal	FY	EQ Limit	Min	Max	Avg	Min	Max	Avg
	2019-20		14	22	18	14	24	18
	2020-21		15	21	18	17	23	20
	2021-22		13	20	16	14	21	18
	2022-23		14	23	17	15	30	19
	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
Nickel	2017-18	420	28	37	32	31	39	34
	2018-19		23	44	33	29	44	37
	2019-20		27	41	35	26	46	35
	2020-21		28	46	36	26	33	29
	2021-22		23	33	28	25	30	26
	2022-23		27	36	31	23	30	25
	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
Selenium	2017-18*	100	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
	2020-21*		1.0	12	6.5	0.9	10	6.3
	2021-22		6.7	9.3	8.0	7.5	11	9.2
	2022-23		5.7	11	8.4	4.5	11	8.3
	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
Silver	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
	2020-21*		2.6	3.8	3.3	2.5	3.2	2.7
	2021-22		2.1	3.6	2.6	1.4	2.5	1.9
	2022-23		2.3	3.5	2.9	1.2	2.5	1.8
	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
Zinc	2017-18	2,800	470	680	600	590	910	720
	2018-19		520	810	600	500	790	720
	2019-20		640	810	760	590	890	720
	2020-21		710	875	800	680	780	740
	2021-22		675	835	790	655	745	690
	2022-23		665	850	760	580	770	660

Table 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2022/23, in Milligrams per Dry Kilogram
Orange County Sanitation District, Resource Protection Division

Metal	FY	EQ Limit	Plant 1			Plant 2		
			Min	Max	Avg	Min	Max	Avg

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

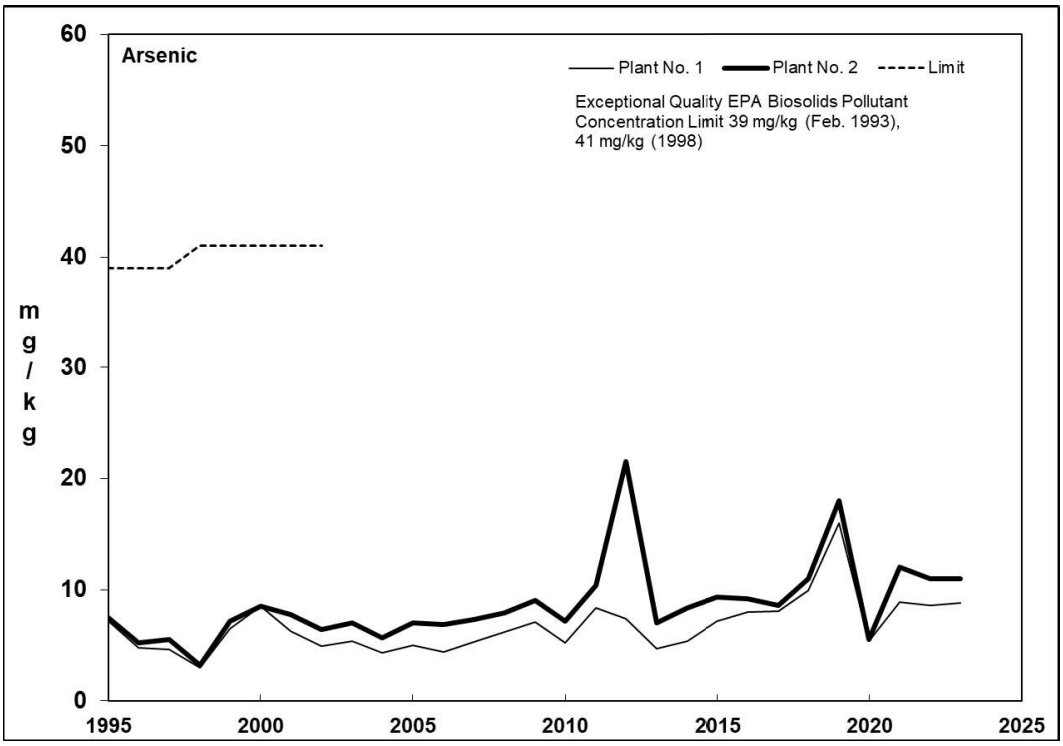

Figure 8-1 Trends in Concentrations of Arsenic in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

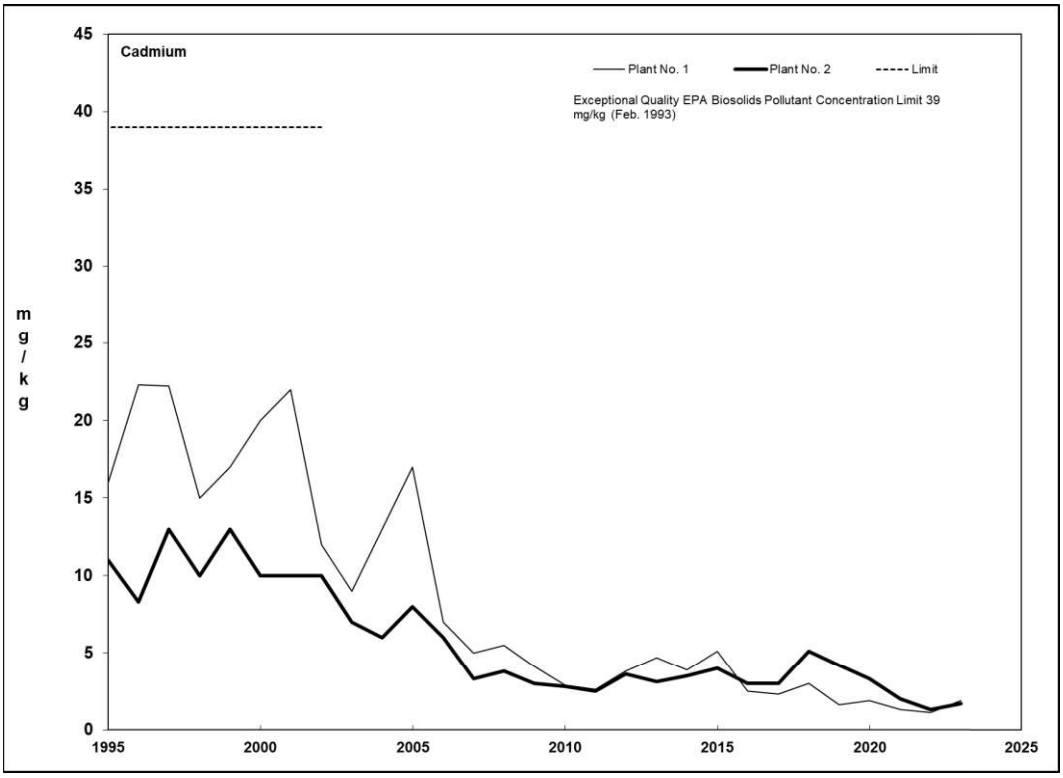

Figure 8-2 Trends in Concentrations of Cadmium in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

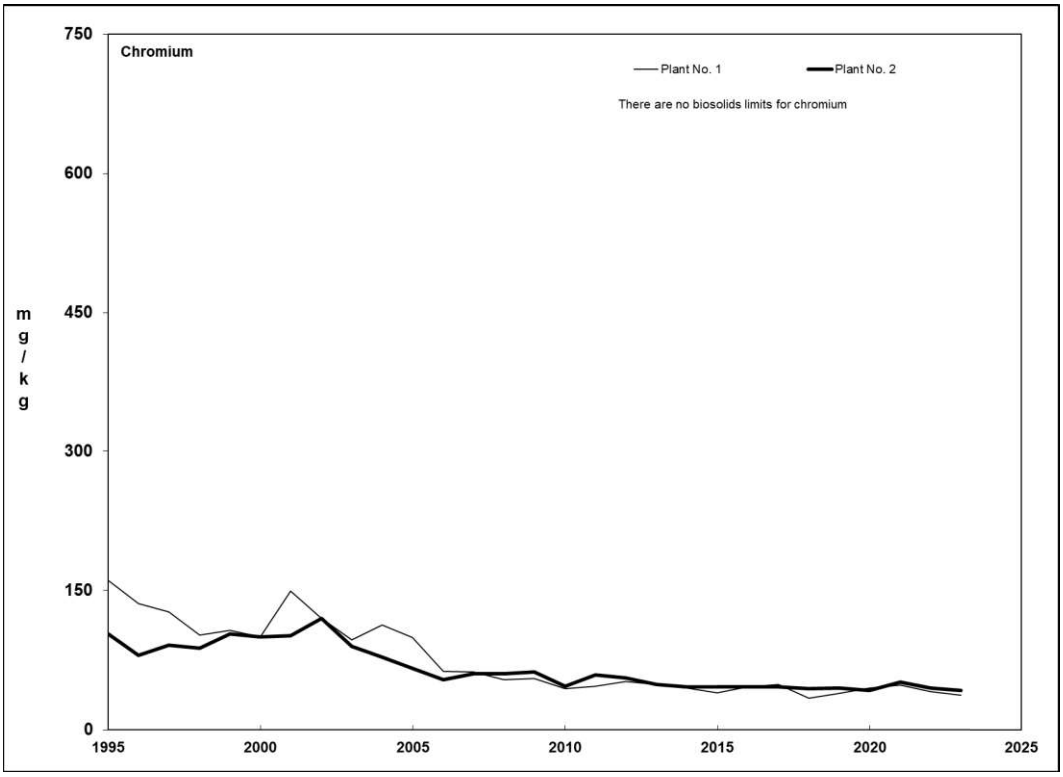

Figure 8-3 Trends in Concentrations of Chromium in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

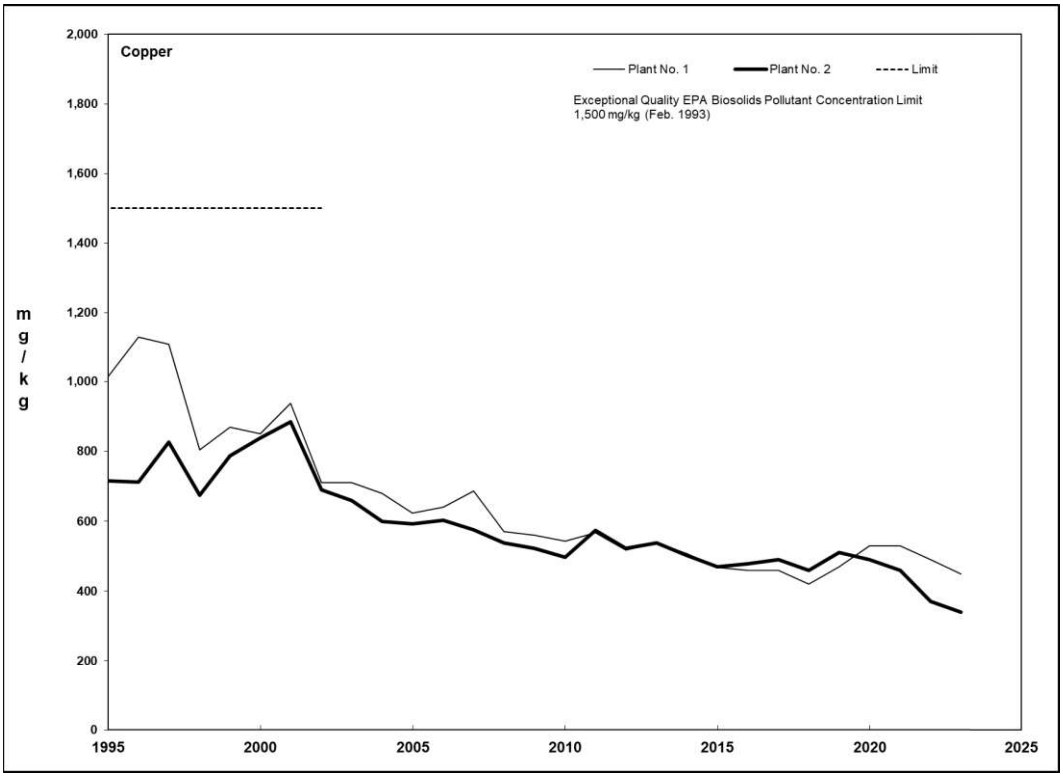

Figure 8-4 Trends in Concentrations of Copper in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

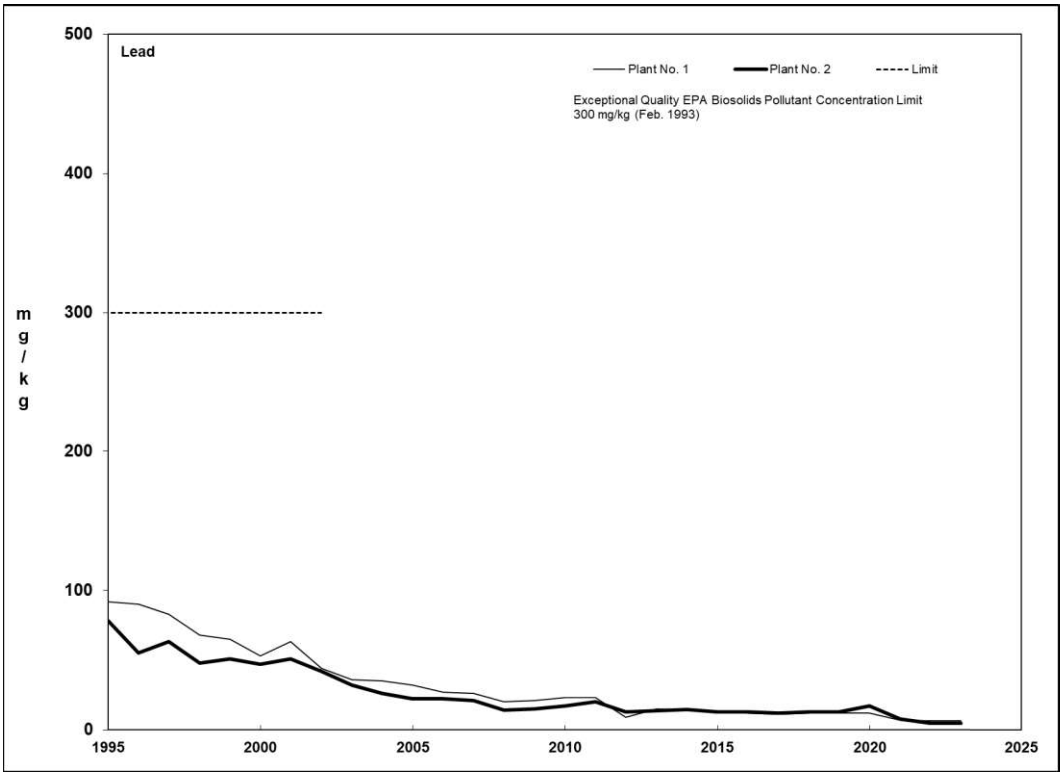

Figure 8-5 Trends in Concentrations of Lead in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

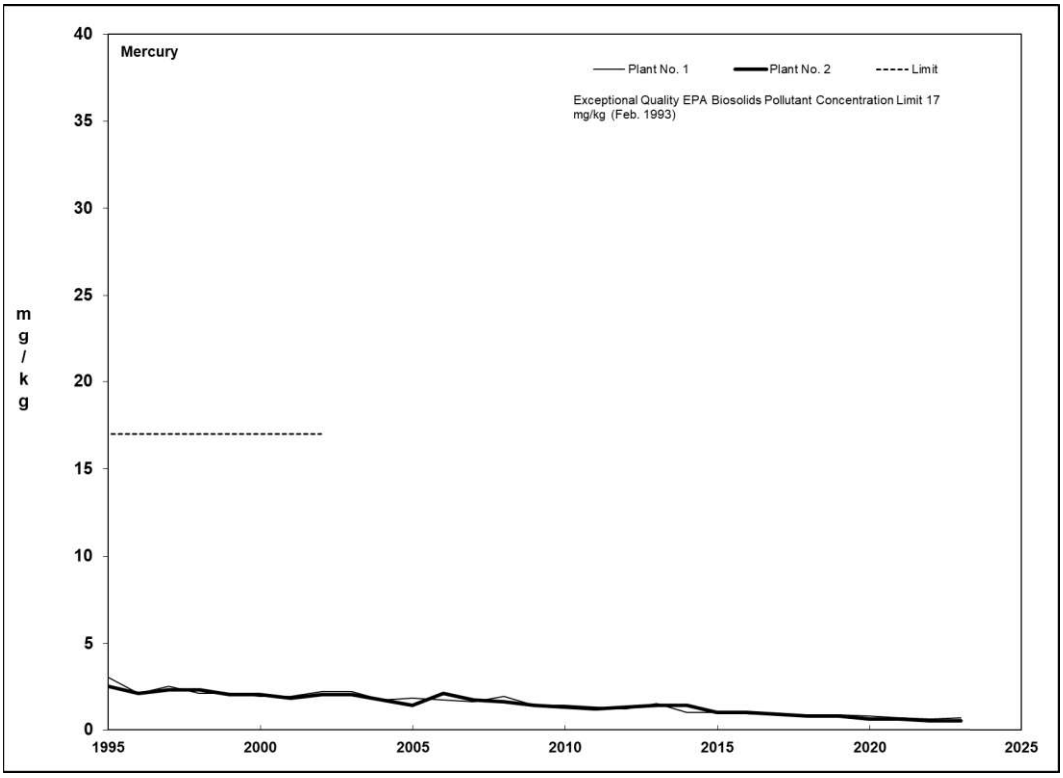

Figure 8-6 Trends in Concentrations of Mercury in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

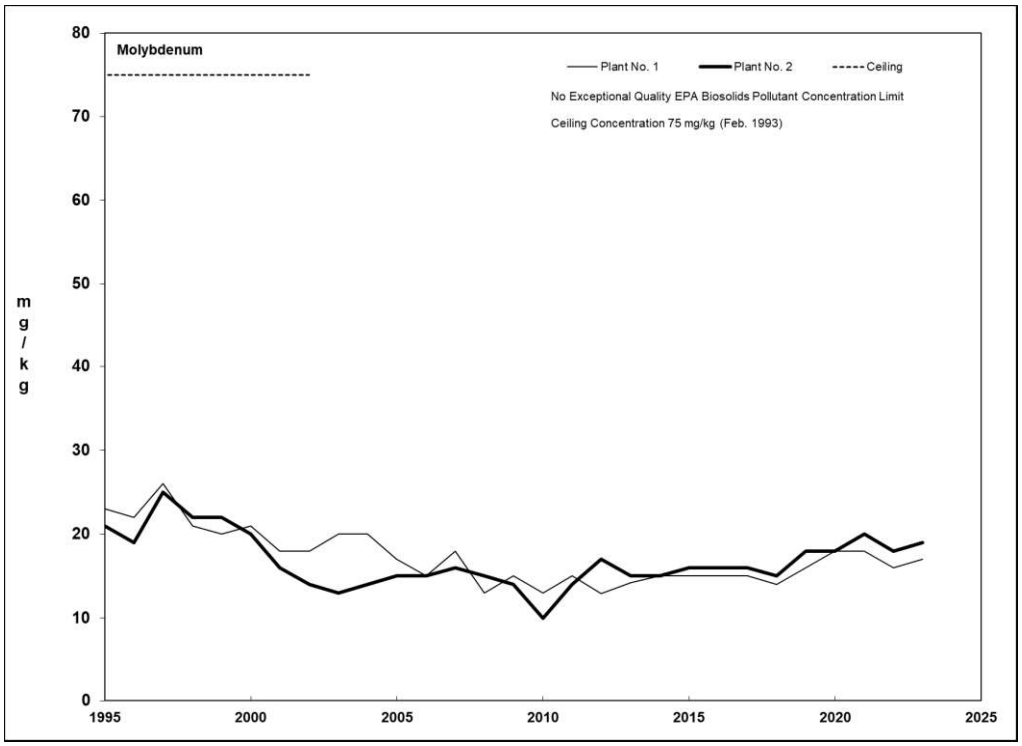

Figure 8-7 Trends in Concentrations of Molybdenum in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

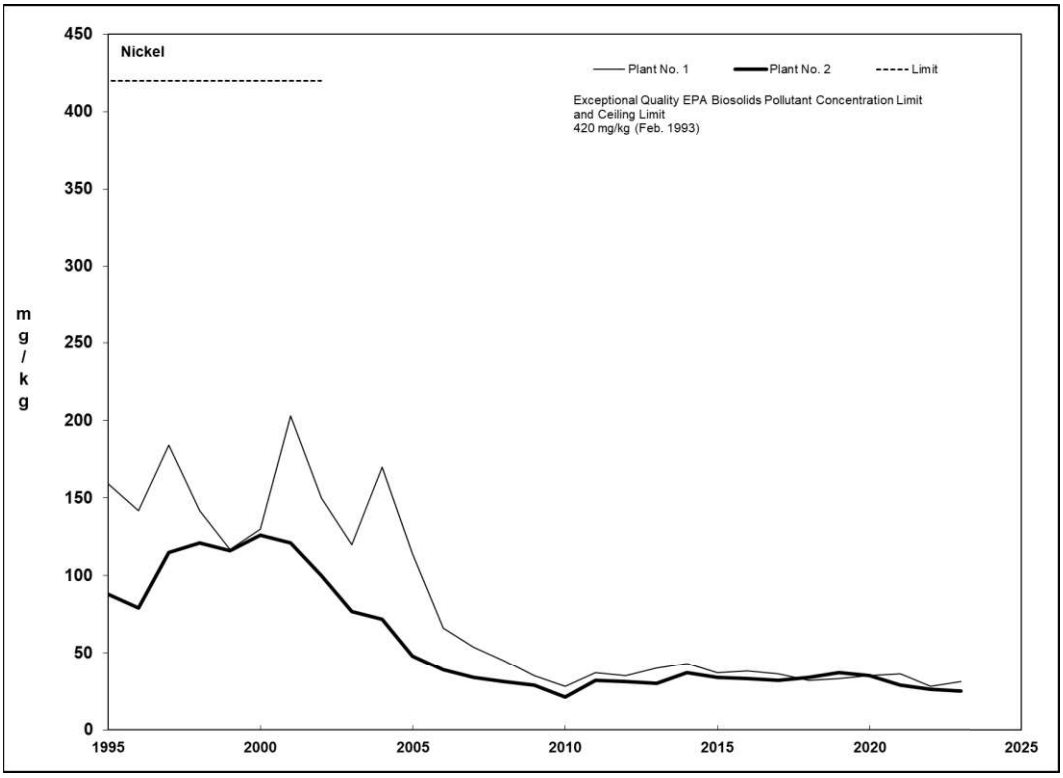

Figure 8-8 Trends in Concentrations of Nickel in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

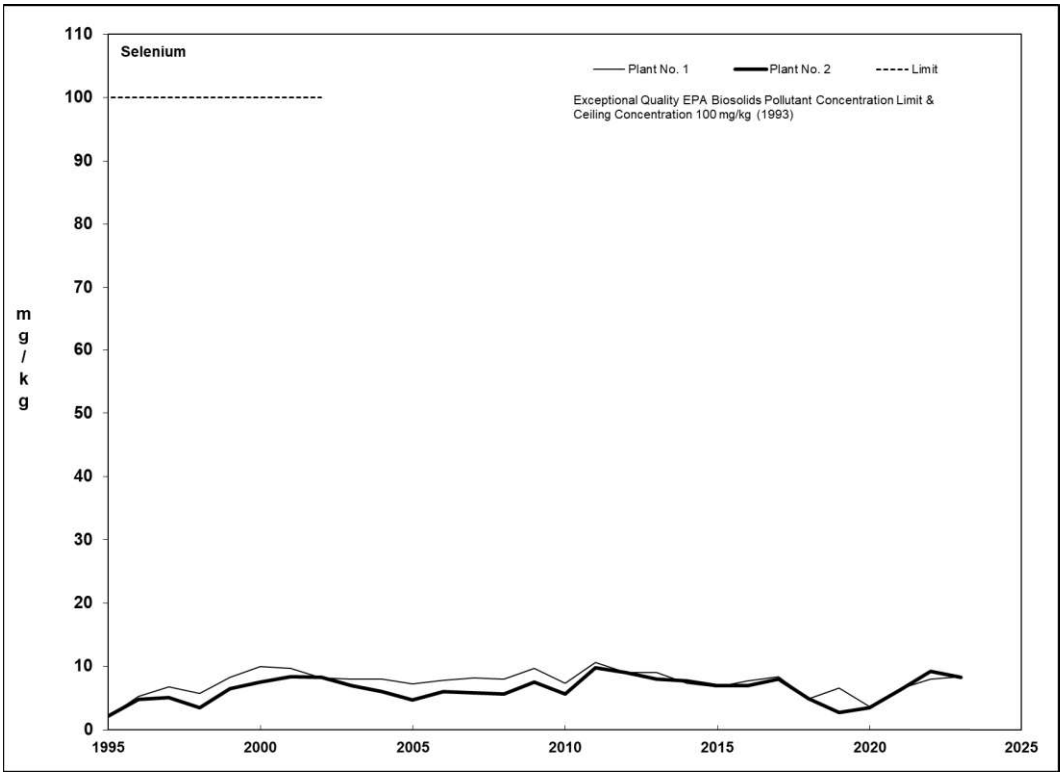

Figure 8-9 Trends in Concentrations of Selenium in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

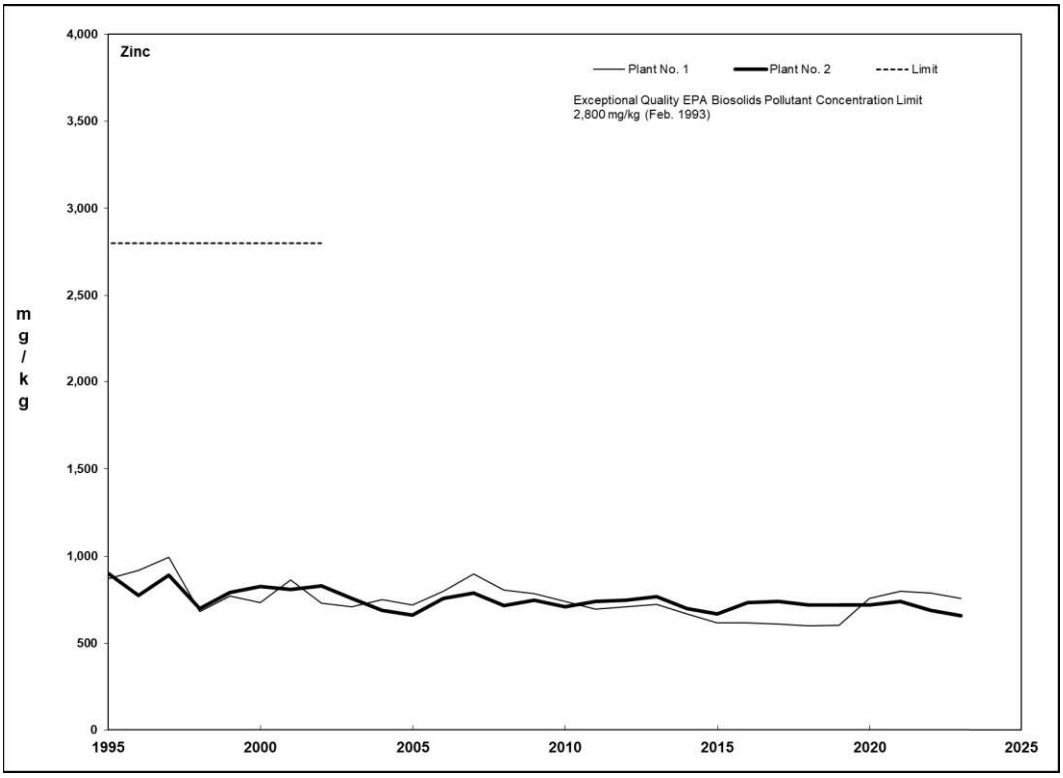

Figure 8-10 Trends in Concentrations of Zinc in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

Appendix C. Summary of Biosolids Monitoring Results

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
General Chemistry	Ammonia-N	SM 4500 NH3 D	mg/kg	Plant 1 Dewatering Cake	01/10/2023	1500	69	190
					01/17/2023	1200	75	210
					02/07/2023	1800	82	230
					02/14/2023	2400	82	230
					03/07/2023	2300	82	230
					03/14/2023	2000	82	230
					04/04/2023	1500	90	250
					04/11/2023	1800	90	250
					05/02/2023	1300	90	250
					05/09/2023	1500	90	250
					06/06/2023	3400	90	250
					06/13/2023	2600	69	190
					07/11/2023	1600	90	250
					07/17/2023	1200	90	250
					08/08/2023	1800	82	230
					08/22/2023	1300	90	250
					09/19/2023	2600	75	210
					10/03/2023	1400	50	140
					10/10/2023	1000	90	250
					11/07/2023	1500	82	230
					11/15/2023	1900	90	250
					12/05/2023	1400	60	170
					12/12/2023	1700	82	230
					Annual Mean	1800		
					Annual Max	3400		
			mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	5700	260	730
					01/17/2023	5000	320	880
					02/07/2023	7400	340	950
					02/14/2023	9500	320	910
					03/07/2023	9200	330	920
					03/14/2023	8100	330	930
					04/04/2023	5900	360	990
					04/11/2023	7300	370	1000
					05/02/2023	5400	370	1000
					05/09/2023	6400	380	1100
					06/06/2023	14000	380	1000
					06/13/2023	11000	290	810
					07/11/2023	6700	380	1000
					07/17/2023	5100	380	1100
					08/08/2023	7600	350	970
					08/22/2023	5200	360	1000
					09/19/2023	10000	290	820
					10/03/2023	5800	210	580
					10/10/2023	4100	370	1000
					11/07/2023	6300	350	970
					11/15/2023	7800	370	1000
					12/05/2023	5400	230	660
					12/12/2023	6800	330	920
					Annual Mean	7200		
					Annual Max	14000		
		SM 4500 NH3 D	mg/kg	Plant 2 Dewatering Cake	01/10/2023	1300	82	230
					01/17/2023	2300	82	230
					02/07/2023	1600	90	250
					02/14/2023	2800	90	250
					03/07/2023	1100	82	230
					03/14/2023	2200	90	250
					04/04/2023	1400	90	250
					04/11/2023	860	90	250
					05/02/2023	1200	90	250
					05/09/2023	850	90	250
					06/06/2023	2000	90	250
					06/13/2023	1200	60	170
					07/11/2023	1500	90	250
					07/18/2023	1000	90	250
					08/08/2023	1600	75	210
					08/22/2023	1300	90	250
					09/19/2023	2800	69	190
					10/03/2023	900	45	130
					10/10/2023	1300	69	190
					11/07/2023	1500	82	230
					11/14/2023	1900	90	250
					12/05/2023	1100	60	170
					12/12/2023	1600	64	180
					Annual Mean	1500		
					Annual Max	2800		
			mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	4900	310	860
					01/17/2023	8500	300	850
					02/07/2023	5900	330	920
					02/14/2023	10000	320	900
					03/07/2023	3800	290	800

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					03/14/2023	8300	340	940
					04/04/2023	5100	330	910
					04/11/2023	3100	330	910
					05/02/2023	4600	340	950
					05/09/2023	3400	360	1000
					06/06/2023	7400	330	930
					06/13/2023	4400	220	630
					07/11/2023	5400	320	890
					07/18/2023	3800	340	940
					08/08/2023	6100	290	800
					08/22/2023	5300	370	1000
					09/19/2023	10000	260	710
					10/03/2023	3300	170	480
					10/10/2023	4800	250	700
					11/07/2023	5600	310	860
					11/14/2023	7300	350	970
					12/05/2023	4200	230	650
					12/12/2023	6300	250	710
					Annual Mean	5700		
					Annual Max	10000		
	Fluoride	EPA 9056A	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	11	1.2	3.8
					07/11/2023	ND	1.3	4.2
					Annual Mean	6.1 DNQ		
					Annual Max	11		
		EPA 9056A	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	7.9	1.2	3.7
					07/11/2023	ND	1.1	3.6
					Annual Mean	4.5 DNQ		
					Annual Max	7.9		
	Fluoride wet weight	EPA 9056A	mg/kg	Plant 1 Dewatering Cake	01/10/2023	3.0	0.31	1.0
					07/11/2023	ND	0.31	1.0
					Annual Mean	1.7 DNQ		
					Annual Max	3.0		
		EPA 9056A	mg/kg	Plant 2 Dewatering Cake	01/10/2023	2.1	0.31	1.0
					07/11/2023	ND	0.31	1.0
					Annual Mean	1.2 DNQ		
					Annual Max	2.1		
	Hexavalent Chromium	EPA 7196A	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	ND	1.1	3.0
					07/11/2023	ND	12	33
					Annual Mean	<12		
					Annual Max	<12		
		EPA 7196A	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	ND	1.0	2.9
					07/11/2023	ND	10	28
					Annual Mean	<10		
					Annual Max	<10		
	Hexavalent Chromium wet weight	EPA 7196A	mg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	0.29	0.79
					07/11/2023	ND	2.9	7.9
					Annual Mean	<2.9		
					Annual Max	<2.9		
		EPA 7196A	mg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	0.28	0.78
					07/11/2023	ND	2.8	7.8
					Annual Mean	<2.8		
					Annual Max	<2.8		
	Kjeldahl Nitrogen	EPA 351.2	mg/kg	Plant 1 Dewatering Cake	01/10/2023	14000	900	1800
					01/17/2023	15000	880	1800
					02/07/2023	14000	1000	2100
					02/14/2023	14000	950	1900
					03/07/2023	16000	790	1600
					03/14/2023	13000	800	1600
					04/04/2023	16000	570	1100
					04/11/2023	14000	630	1300
					05/02/2023	15000	630	1300
					05/09/2023	18000	570	1100
					06/06/2023	12000	850	1700
					06/13/2023	10000	760	1500
					07/11/2023	13000	430	850
					07/17/2023	14000	790	1600
					08/08/2023	13000	1200	2300
					08/22/2023	13000	850	1700
					09/19/2023	14000	910	1800
					10/03/2023	13000	850	1700
					10/10/2023	13000	1000	2000
					11/07/2023	13000	810	1600
					11/15/2023	13000	590	1200
					12/05/2023	13000	900	1800
					12/12/2023	13000	1000	2100
					Annual Mean	14000		
					Annual Max	18000		
			mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	53000	3400	6900
					01/17/2023	63000	3700	7600
					02/07/2023	58000	4100	8700

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					02/14/2023	55000	3800	7500
					03/07/2023	64000	3200	6400
					03/14/2023	53000	3300	6500
					04/04/2023	63000	2300	4300
					04/11/2023	57000	2600	5300
					05/02/2023	62000	2600	5400
					05/09/2023	76000	2400	4700
					06/06/2023	50000	3600	7100
					06/13/2023	43000	3200	6400
					07/11/2023	54000	1800	3500
					07/17/2023	59000	3300	6800
					08/08/2023	55000	5100	9700
					08/22/2023	52000	3400	6800
					09/19/2023	54000	3500	7000
					10/03/2023	53000	3500	7000
					10/10/2023	53000	4100	8100
					11/07/2023	55000	3400	6800
					11/15/2023	53000	2400	4900
					12/05/2023	51000	3500	7000
					12/12/2023	52000	4000	8400
					Annual Mean	56000		
					Annual Max	76000		
		EPA 351.2	mg/kg	Plant 2 Dewatering Cake	01/10/2023	14000	780	1600
					01/17/2023	14000	700	1400
					02/07/2023	15000	1100	2200
					02/14/2023	14000	1100	2200
					03/07/2023	14000	830	1700
					03/14/2023	13000	970	1900
					04/04/2023	11000	570	1100
					04/11/2023	14000	630	1300
					05/02/2023	13000	570	1100
					05/09/2023	16000	570	1100
					06/06/2023	14000	890	1800
					06/13/2023	13000	910	1800
					07/11/2023	15000	470	930
					07/18/2023	15000	830	1700
					08/08/2023	13000	890	1800
					08/22/2023	13000	810	1600
					09/19/2023	13000	940	1900
					10/03/2023	14000	910	1800
					10/10/2023	11000	830	1700
					11/07/2023	13000	830	1700
					11/14/2023	12000	720	1400
					12/05/2023	13000	820	1600
					12/12/2023	14000	1000	2100
					Annual Mean	14000		
					Annual Max	16000		
			mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	52000	2900	6000
					01/17/2023	52000	2600	5200
					02/07/2023	55000	4000	8100
					02/14/2023	50000	4000	7900
					03/07/2023	49000	2900	5900
					03/14/2023	49000	3700	7200
					04/04/2023	40000	2100	4000
					04/11/2023	51000	2300	4700
					05/02/2023	49000	2200	4200
					05/09/2023	64000	2300	4400
					06/06/2023	52000	3300	6700
					06/13/2023	48000	3400	6700
					07/11/2023	54000	1700	3300
					07/18/2023	57000	3100	6400
					08/08/2023	50000	3400	6900
					08/22/2023	53000	3300	6600
					09/19/2023	48000	3500	7100
					10/03/2023	52000	3400	6700
					10/10/2023	40000	3000	6200
					11/07/2023	49000	3100	6400
					11/14/2023	46000	2800	5400
					12/05/2023	49000	3100	6100
					12/12/2023	55000	3900	8300
					Annual Mean	51000		
					Annual Max	64000		
	Nitrate-N	EPA 9056A	mg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	0.24	1.0
					01/17/2023	ND	0.24	1.0
					02/07/2023	ND	0.49	2.0
					02/14/2023	ND	0.25	1.0
					03/07/2023	ND	0.24	1.0
					03/14/2023	ND	0.48	2.0
					04/04/2023	ND	0.24	0.99
					04/11/2023	ND	0.48	2.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					05/02/2023	ND	0.24	1.0
					05/09/2023	ND	0.25	1.0
					06/06/2023	0.34 DNQ	0.25	1.0
					06/13/2023	0.28 DNQ	0.25	1.0
					07/11/2023	ND	0.24	1.0
					07/17/2023	ND	0.49	2.0
					08/08/2023	ND	0.24	1.0
					08/22/2023	ND	0.49	2.0
					09/19/2023	ND	0.24	1.0
					10/03/2023	0.43 DNQ	0.24	1.0
					10/10/2023	ND	0.24	0.99
					11/07/2023	ND	0.25	1.0
					11/15/2023	ND	2.4	10
					12/05/2023	ND	1.2	5.0
					12/12/2023	ND	0.24	1.0
					Annual Mean	0.44 DNQ		
					Annual Max	0.43 DNQ		
			mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	ND	0.92	3.8
					01/17/2023	ND	1.0	4.2
					02/07/2023	ND	2.0	8.3
					02/14/2023	ND	0.99	4.0
					03/07/2023	ND	0.96	4.0
					03/14/2023	ND	2.0	8.1
					04/04/2023	ND	0.95	3.9
					04/11/2023	ND	2.0	8.2
					05/02/2023	ND	0.99	4.1
					05/09/2023	ND	1.1	4.2
					06/06/2023	1.4 DNQ	1.0	4.2
					06/13/2023	1.2 DNQ	1.1	4.3
					07/11/2023	ND	1.0	4.2
					07/17/2023	ND	2.1	8.4
					08/08/2023	ND	1.0	4.2
					08/22/2023	ND	2.0	8.0
					09/19/2023	ND	0.93	3.9
					10/03/2023	1.8 DNQ	0.99	4.1
					10/10/2023	ND	0.98	4.0
					11/07/2023	ND	1.1	4.2
					11/15/2023	ND	9.8	41
					12/05/2023	ND	4.7	19
					12/12/2023	ND	0.96	4.0
					Annual Mean	1.8 DNQ		
					Annual Max	1.8 DNQ		
		EPA 9056A	mg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	0.24	1.0
					01/17/2023	ND	0.24	0.99
					02/07/2023	ND	0.49	2.0
					02/14/2023	ND	1.2	5.0
					03/07/2023	ND	0.24	1.0
					03/14/2023	0.60 DNQ	0.49	2.0
					04/04/2023	ND	0.24	0.99
					04/11/2023	ND	0.48	2.0
					05/02/2023	ND	0.24	0.99
					05/09/2023	ND	0.24	0.99
					06/06/2023	ND	0.24	1.0
					06/13/2023	ND	0.25	1.0
					07/11/2023	0.27 DNQ	0.24	1.0
					07/18/2023	ND	0.49	2.0
					08/08/2023	ND	0.24	0.99
					08/22/2023	0.54 DNQ	0.49	2.0
					09/19/2023	ND	0.25	1.0
					10/03/2023	0.30 DNQ	0.25	1.0
					10/10/2023	ND	0.24	1.0
					11/07/2023	ND	0.24	0.99
					11/14/2023	ND	2.5	10
					12/05/2023	ND	1.2	5.0
					12/12/2023	ND	0.24	1.0
					Annual Mean	0.49 DNQ		
					Annual Max	0.60 DNQ		
			mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	ND	0.90	3.7
					01/17/2023	ND	0.89	3.7
					02/07/2023	ND	1.8	7.3
					02/14/2023	ND	4.3	18
					03/07/2023	ND	0.84	3.5
					03/14/2023	2.3 DNQ	1.8	7.5
					04/04/2023	ND	0.88	3.6
					04/11/2023	ND	1.7	7.3
					05/02/2023	ND	0.91	3.8
					05/09/2023	ND	0.96	4.0
					06/06/2023	ND	0.89	3.7
					06/13/2023	ND	0.93	3.7
					07/11/2023	0.96 DNQ	0.86	3.6

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					07/18/2023	ND	1.8	7.5
					08/08/2023	ND	0.92	3.8
					08/22/2023	2.2 DNQ	2.0	8.2
					09/19/2023	ND	0.93	3.7
					10/03/2023	1.1 DNQ	0.93	3.7
					10/10/2023	ND	0.88	3.7
					11/07/2023	ND	0.90	3.7
					11/14/2023	ND	9.7	39
					12/05/2023	ND	4.6	19
					12/12/2023	ND	0.94	3.9
					Annual Mean	1.8 DNQ		
					Annual Max	2.3 DNQ		
	Nitrite-N	EPA 9056A	mg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	0.18	1.0
					01/17/2023	6.8	0.18	1.0
					02/07/2023	ND	0.37	2.0
					02/14/2023	ND	0.18	1.0
					03/07/2023	ND	0.18	1.0
					03/14/2023	ND	0.36	2.0
					04/04/2023	ND	0.18	0.99
					04/11/2023	5.2	0.36	2.0
					05/02/2023	2.7	0.18	1.0
					05/09/2023	ND	0.18	1.0
					06/06/2023	ND	0.18	1.0
					06/13/2023	2.1	0.18	1.0
					07/11/2023	ND	0.18	1.0
					07/17/2023	0.53 DNQ	0.36	2.0
					08/08/2023	ND	0.18	1.0
					08/22/2023	ND	0.37	2.0
					09/19/2023	ND	0.18	1.0
					10/03/2023	ND	0.18	1.0
					10/10/2023	ND	0.18	0.99
					11/07/2023	ND	0.18	1.0
					11/15/2023	ND	1.8	10
					12/05/2023	ND	0.90	5.0
					12/12/2023	ND	0.18	1.0
					Annual Mean	1.0 DNQ		
					Annual Max	6.8		
			mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	ND	0.69	3.8
					01/17/2023	29	0.76	4.2
					02/07/2023	ND	1.5	8.3
					02/14/2023	ND	0.71	4.0
					03/07/2023	ND	0.72	4.0
					03/14/2023	ND	1.5	8.1
					04/04/2023	ND	0.71	3.9
					04/11/2023	21	1.5	8.2
					05/02/2023	11	0.74	4.1
					05/09/2023	ND	0.76	4.2
					06/06/2023	ND	0.75	4.2
					06/13/2023	8.9	0.77	4.3
					07/11/2023	ND	0.75	4.2
					07/17/2023	2.2 DNQ	1.5	8.4
					08/08/2023	ND	0.76	4.2
					08/22/2023	ND	1.5	8.0
					09/19/2023	ND	0.70	3.9
					10/03/2023	ND	0.74	4.1
					10/10/2023	ND	0.73	4.0
					11/07/2023	ND	0.76	4.2
					11/15/2023	ND	7.3	40
					12/05/2023	ND	4.0	19
					12/12/2023	ND	0.72	4.0
					Annual Mean	4.2 DNQ		
					Annual Max	29		
		EPA 9056A	mg/kg	Plant 2 Dewatering Cake	01/10/2023	5.3	0.18	1.0
					01/17/2023	4.5	0.18	0.99
					02/07/2023	ND	0.37	2.0
					02/14/2023	ND	0.91	5.0
					03/07/2023	ND	0.18	1.0
					03/14/2023	ND	0.36	2.0
					04/04/2023	ND	0.18	0.99
					04/11/2023	ND	0.36	2.0
					05/02/2023	5.1	0.18	0.99
					05/09/2023	ND	0.18	0.99
					06/06/2023	ND	0.18	1.0
					06/13/2023	4.9	0.18	1.0
					07/11/2023	ND	0.18	1.0
					07/18/2023	ND	0.36	2.0
					08/08/2023	ND	0.18	0.99
					08/22/2023	ND	0.36	2.0
					09/19/2023	ND	0.18	1.0
					10/03/2023	ND	0.18	1.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					10/10/2023	ND	0.18	1.0
					11/07/2023	ND	0.18	0.99
					11/14/2023	ND	1.8	10
					12/05/2023	ND	0.90	5.0
					12/12/2023	ND	0.18	1.0
					Annual Mean	1.2 DNQ		
					Annual Max	5.3		
			mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	20	0.67	3.7
					01/17/2023	17	0.67	3.7
					02/07/2023	ND	1.4	7.3
					02/14/2023	ND	3.3	18
					03/07/2023	ND	0.63	3.5
					03/14/2023	ND	1.4	7.5
					04/04/2023	ND	0.66	3.6
					04/11/2023	ND	1.3	7.3
					05/02/2023	19	0.68	3.8
					05/09/2023	ND	0.72	4.0
					06/06/2023	ND	0.67	3.7
					06/13/2023	18	0.67	3.7
					07/11/2023	ND	0.64	3.6
					07/18/2023	ND	1.4	7.5
					08/08/2023	ND	0.69	3.8
					08/22/2023	ND	1.5	8.2
					09/19/2023	ND	0.67	3.7
					10/03/2023	ND	0.67	3.7
					10/10/2023	ND	0.66	3.7
					11/07/2023	ND	0.68	3.7
					11/14/2023	ND	6.9	40
					12/05/2023	ND	3.0	19
					12/12/2023	ND	0.71	3.9
					Annual Mean	4.4 DNQ		
					Annual Max	20		
	Organic Lead	EPA 8270C	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	ND	0.061	0.076
					07/11/2023	ND	0.079	0.083
					Annual Mean	<0.079		
					Annual Max	<0.079		
		EPA 8270C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	ND	0.060	0.075
					07/11/2023	ND	0.068	0.071
					Annual Mean	<0.068		
					Annual Max	<0.068		
	Organic Lead wet weight	EPA 8270C	mg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	0.016	0.020
					07/11/2023	ND	0.019	0.020
					Annual Mean	<0.019		
					Annual Max	<0.019		
		EPA 8270C	mg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	0.016	0.020
					07/11/2023	ND	0.019	0.020
					Annual Mean	<0.019		
					Annual Max	<0.019		
	Organic Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	47000	--	--
					01/17/2023	58000	--	--
					02/07/2023	51000	--	--
					02/14/2023	46000	--	--
					03/07/2023	55000	--	--
					03/14/2023	45000	--	--
					04/04/2023	57000	--	--
					04/11/2023	50000	--	--
					05/02/2023	57000	--	--
					05/09/2023	70000	--	--
					06/06/2023	36000	--	--
					06/13/2023	32000	--	--
					07/11/2023	47000	--	--
					07/17/2023	54000	--	--
					08/08/2023	47000	--	--
					08/22/2023	47000	--	--
					09/19/2023	44000	--	--
					10/03/2023	47000	--	--
					10/10/2023	49000	--	--
					11/07/2023	49000	--	--
					11/15/2023	45000	--	--
					12/05/2023	46000	--	--
					12/12/2023	45000	--	--
					Annual Mean	49000		
					Annual Max	70000		
		CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	47000	--	--
					01/17/2023	44000	--	--
					02/07/2023	49000	--	--
					02/14/2023	40000	--	--
					03/07/2023	45000	--	--
					03/14/2023	41000	--	--
					04/04/2023	35000	--	--

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/11/2023	48000	--	--
					05/02/2023	44000	--	--
					05/09/2023	61000	--	--
					06/06/2023	45000	--	--
					06/13/2023	44000	--	--
					07/11/2023	49000	--	--
					07/18/2023	53000	--	--
					08/08/2023	44000	--	--
					08/22/2023	48000	--	--
					09/19/2023	38000	--	--
					10/03/2023	49000	--	--
					10/10/2023	35000	--	--
					11/07/2023	43000	--	--
					11/14/2023	39000	--	--
					12/05/2023	45000	--	--
					12/12/2023	49000	--	--
					Annual Mean	45000		
					Annual Max	61000		
	Organic Nitrogen wet weight	CALC	mg/kg	Plant 1 Dewatering Cake	01/10/2023	13000	--	--
					01/17/2023	14000	--	--
					02/07/2023	12000	--	--
					02/14/2023	12000	--	--
					03/07/2023	14000	--	--
					03/14/2023	11000	--	--
					04/04/2023	15000	--	--
					04/11/2023	12000	--	--
					05/02/2023	14000	--	--
					05/09/2023	17000	--	--
					06/06/2023	8600	--	--
					06/13/2023	7400	--	--
					07/11/2023	11000	--	--
					07/17/2023	13000	--	--
					08/08/2023	11000	--	--
					08/22/2023	12000	--	--
					09/19/2023	11000	--	--
					10/03/2023	12000	--	--
					10/10/2023	12000	--	--
					11/07/2023	12000	--	--
					11/15/2023	11000	--	--
					12/05/2023	12000	--	--
					12/12/2023	11000	--	--
					Annual Mean	12000		
					Annual Max	17000		
		CALC	mg/kg	Plant 2 Dewatering Cake	01/10/2023	13000	--	--
					01/17/2023	12000	--	--
					02/07/2023	13000	--	--
					02/14/2023	11000	--	--
					03/07/2023	13000	--	--
					03/14/2023	11000	--	--
					04/04/2023	9600	--	--
					04/11/2023	13000	--	--
					05/02/2023	12000	--	--
					05/09/2023	15000	--	--
					06/06/2023	12000	--	--
					06/13/2023	12000	--	--
					07/11/2023	14000	--	--
					07/18/2023	14000	--	--
					08/08/2023	11000	--	--
					08/22/2023	12000	--	--
					09/19/2023	10000	--	--
					10/03/2023	13000	--	--
					10/10/2023	9700	--	--
					11/07/2023	12000	--	--
					11/14/2023	10000	--	--
					12/05/2023	12000	--	--
					12/12/2023	12000	--	--
					Annual Mean	12000		
					Annual Max	15000		
	pH	EPA 9045D	pH units	Plant 1 Dewatering Cake	01/10/2023	7.0	0.010	0.01
					01/17/2023	7.7	0.010	0.01
					02/07/2023	8.4	0.010	0.01
					02/14/2023	8.1	0.010	0.01
					03/07/2023	7.6	0.010	0.01
					03/14/2023	8.2	0.010	0.01
					04/04/2023	7.9	0.010	0.01
					04/11/2023	7.7	0.010	0.01
					05/02/2023	8.1	0.010	0.01
					05/09/2023	7.2	0.010	0.01
					06/06/2023	7.4	0.010	0.01
					06/13/2023	7.9	0.010	0.01

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					07/11/2023	8.1	0.010	0.01
					07/17/2023	7.9	0.010	0.01
					08/08/2023	7.5	0.010	0.01
					08/22/2023	8.0	0.010	0.01
					09/19/2023	7.7	0.010	0.01
					10/03/2023	8.1	0.010	0.01
					10/10/2023	7.9	0.010	0.01
					11/07/2023	7.7	0.010	0.01
					11/15/2023	7.9	0.010	0.01
					12/05/2023	7.9	0.010	0.01
					12/12/2023	7.7	0.010	0.01
					Annual Mean	7.8		
					Annual Max	8.4		
		EPA 9045D	pH units	Plant 2 Dewatering Cake	01/10/2023	6.9	0.010	0.01
					01/17/2023	7.7	0.010	0.01
					02/07/2023	8.2	0.010	0.01
					02/14/2023	8.1	0.010	0.01
					03/07/2023	7.5	0.010	0.01
					03/14/2023	7.9	0.010	0.01
					04/04/2023	7.6	0.010	0.01
					04/11/2023	7.7	0.010	0.01
					05/02/2023	7.7	0.010	0.01
					05/09/2023	7.3	0.010	0.01
					06/06/2023	7.1	0.010	0.01
					06/13/2023	7.5	0.010	0.01
					07/11/2023	7.8	0.010	0.01
					07/18/2023	7.4	0.010	0.01
					08/08/2023	7.6	0.010	0.01
					08/22/2023	7.9	0.010	0.01
					09/19/2023	7.7	0.010	0.01
					10/03/2023	7.7	0.010	0.01
					10/10/2023	8.0	0.010	0.01
					11/07/2023	7.8	0.010	0.01
					11/14/2023	8.0	0.010	0.01
					12/05/2023	7.9	0.010	0.01
					12/12/2023	7.8	0.010	0.01
					Annual Mean	7.7		
					Annual Max	8.2		
	Total Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	53000	--	--
					01/17/2023	63000	--	--
					02/07/2023	58000	--	--
					02/14/2023	55000	--	--
					03/07/2023	64000	--	--
					03/14/2023	53000	--	--
					04/04/2023	63000	--	--
					04/11/2023	57000	--	--
					05/02/2023	62000	--	--
					05/09/2023	76000	--	--
					06/06/2023	50000	--	--
					06/13/2023	43000	--	--
					07/11/2023	54000	--	--
					07/17/2023	59000	--	--
					08/08/2023	55000	--	--
					08/22/2023	52000	--	--
					09/19/2023	54000	--	--
					10/03/2023	53000	--	--
					10/10/2023	53000	--	--
					11/07/2023	55000	--	--
					11/15/2023	53000	--	--
					12/05/2023	51000	--	--
					12/12/2023	52000	--	--
					Annual Mean	56000		
					Annual Max	76000		
		CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	52000	--	--
					01/17/2023	52000	--	--
					02/07/2023	55000	--	--
					02/14/2023	50000	--	--
					03/07/2023	49000	--	--
					03/14/2023	49000	--	--
					04/04/2023	40000	--	--
					04/11/2023	51000	--	--
					05/02/2023	49000	--	--
					05/09/2023	64000	--	--
					06/06/2023	52000	--	--
					06/13/2023	48000	--	--
					07/11/2023	54000	--	--
					07/18/2023	57000	--	--
					08/08/2023	50000	--	--
					08/22/2023	53000	--	--
					09/19/2023	48000	--	--

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					10/03/2023	52000	--	--
					10/10/2023	40000	--	--
					11/07/2023	49000	--	--
					11/14/2023	46000	--	--
					12/05/2023	49000	--	--
					12/12/2023	55000	--	--
					Annual Mean	51000		
					Annual Max	64000		
	Total Nitrogen wet weight	CALC	mg/kg	Plant 1 Dewatering Cake	01/10/2023	14000	--	--
					01/17/2023	15000	--	--
					02/07/2023	14000	--	--
					02/14/2023	14000	--	--
					03/07/2023	16000	--	--
					03/14/2023	13000	--	--
					04/04/2023	16000	--	--
					04/11/2023	14000	--	--
					05/02/2023	15000	--	--
					05/09/2023	18000	--	--
					06/06/2023	12000	--	--
					06/13/2023	10000	--	--
					07/11/2023	13000	--	--
					07/17/2023	14000	--	--
					08/08/2023	13000	--	--
					08/22/2023	13000	--	--
					09/19/2023	14000	--	--
					10/03/2023	13000	--	--
					10/10/2023	13000	--	--
					11/07/2023	13000	--	--
					11/15/2023	13000	--	--
					12/05/2023	13000	--	--
					12/12/2023	13000	--	--
					Annual Mean	14000		
					Annual Max	18000		
		CALC	mg/kg	Plant 2 Dewatering Cake	01/10/2023	14000	--	--
					01/17/2023	14000	--	--
					02/07/2023	15000	--	--
					02/14/2023	14000	--	--
					03/07/2023	14000	--	--
					03/14/2023	13000	--	--
					04/04/2023	11000	--	--
					04/11/2023	14000	--	--
					05/02/2023	13000	--	--
					05/09/2023	16000	--	--
					06/06/2023	14000	--	--
					06/13/2023	13000	--	--
					07/11/2023	15000	--	--
					07/18/2023	15000	--	--
					08/08/2023	13000	--	--
					08/22/2023	13000	--	--
					09/19/2023	13000	--	--
					10/03/2023	14000	--	--
					10/10/2023	11000	--	--
					11/07/2023	13000	--	--
					11/14/2023	12000	--	--
					12/05/2023	13000	--	--
					12/12/2023	14000	--	--
					Annual Mean	14000		
					Annual Max	16000		
	Total Solids	SM 2540G	%	Plant 1 Dewatering Cake	01/10/2023	26	0.10	0.100
					01/17/2023	24	0.10	0.100
					02/07/2023	24	0.10	0.100
					02/14/2023	25	0.10	0.100
					03/07/2023	25	0.10	0.100
					03/14/2023	25	0.10	0.100
					04/04/2023	25	0.10	0.10
					04/11/2023	24	0.10	0.100
					05/02/2023	24	0.10	0.100
					05/09/2023	24	0.10	0.100
					06/06/2023	24	0.10	0.100
					06/13/2023	24	0.10	0.100
					07/11/2023	24	0.10	0.10
					07/17/2023	24	0.10	0.100
					08/08/2023	24	0.10	0.100
					08/22/2023	25	0.10	0.100
					09/19/2023	26	0.10	0.100
					10/03/2023	24	0.10	0.100
					10/10/2023	25	0.10	0.100
					11/07/2023	24	0.10	0.100
					11/15/2023	24	0.10	0.100
					12/05/2023	26	0.10	0.100

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					12/12/2023	25	0.10	0.100
					Annual Mean	24		
					Annual Max	26		
		SM 2540G	%	Plant 2 Dewatering Cake	01/10/2023	27	0.10	0.100
					01/17/2023	27	0.10	0.100
					02/07/2023	27	0.10	0.100
					02/14/2023	28	0.10	0.100
					03/07/2023	29	0.10	0.100
					03/14/2023	26	0.10	0.100
					04/04/2023	27	0.10	0.10
					04/11/2023	28	0.10	0.100
					05/02/2023	26	0.10	0.100
					05/09/2023	25	0.10	0.100
					06/06/2023	27	0.10	0.100
					06/13/2023	27	0.10	0.100
					07/11/2023	28	0.10	0.10
					07/18/2023	26	0.10	0.100
					08/08/2023	26	0.10	0.100
					08/22/2023	24	0.10	0.100
					09/19/2023	27	0.10	0.100
					10/03/2023	27	0.10	0.100
					10/10/2023	27	0.10	0.100
					11/07/2023	27	0.10	0.100
					11/14/2023	26	0.10	0.100
					12/05/2023	26	0.10	0.100
					12/12/2023	25	0.10	0.100
					Annual Mean	27		
					Annual Max	29		
Trace Elements	Antimony	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	5.3	0.88	1.9
					07/11/2023	ND	12	41
					Annual Mean	8.7 DNQ		
					Annual Max	5.3		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	5.2	0.90	1.9
					07/11/2023	ND	10	35
					Annual Mean	7.6 DNQ		
					Annual Max	5.2		
	Antimony wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	1.4	0.23	0.50
					07/11/2023	ND	2.8	9.8
					Annual Mean	2.1 DNQ		
					Annual Max	1.4		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	1.4	0.24	0.50
					07/11/2023	ND	2.8	9.9
					Annual Mean	2.1 DNQ		
					Annual Max	1.4		
	Arsenic	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	11	0.95	9.5
					01/17/2023	8.0 DNQ	1.1	11
					02/07/2023	9.1 DNQ	5.8	12
					02/14/2023	7.1 DNQ	5.5	12
					03/07/2023	7.6 DNQ	5.6	12
					03/14/2023	6.5 DNQ	5.7	13
					04/04/2023	10 DNQ	5.5	12
					04/11/2023	10 DNQ	5.7	12
					05/02/2023	9.1 DNQ	5.8	12
					05/09/2023	9.3 DNQ	5.9	13
					06/06/2023	8.8 DNQ	5.9	13
					06/13/2023	9.8 DNQ	6.0	13
					07/11/2023	ND	5.8	12
					07/17/2023	6.3 DNQ	5.9	13
					08/08/2023	ND	5.9	12
					08/22/2023	6.0 DNQ	5.6	12
					09/19/2023	5.8 DNQ	5.4	12
					10/03/2023	ND	5.8	12
					10/10/2023	6.5 DNQ	5.7	12
					11/07/2023	ND	5.9	13
					11/15/2023	ND	5.7	12
					12/05/2023	6.6 DNQ	5.4	12
					12/12/2023	6.8 DNQ	5.6	12
					Annual Mean	7.5 DNQ		
					Annual Max	11		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	13	0.97	9.4
					01/17/2023	8.5 DNQ	0.93	9.3
					02/07/2023	9.5 DNQ	5.1	11
					02/14/2023	9.4 DNQ	5.0	11
					03/07/2023	8.4 DNQ	4.9	10
					03/14/2023	7.9 DNQ	5.3	11
					04/04/2023	14	5.1	11
					04/11/2023	13	5.1	11
					05/02/2023	10 DNQ	5.3	11
					05/09/2023	11 DNQ	5.6	12
					06/06/2023	12	5.2	11

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					06/13/2023	13	5.2	11
					07/11/2023	6.4 DNQ	5.0	11
					07/18/2023	7.9 DNQ	5.3	11
					08/08/2023	7.6 DNQ	5.3	11
					08/22/2023	9.5 DNQ	5.8	12
					09/19/2023	7.4 DNQ	5.2	11
					10/03/2023	7.4 DNQ	5.2	11
					10/10/2023	7.3 DNQ	5.1	11
					11/07/2023	7.1 DNQ	5.3	11
					11/14/2023	5.4 DNQ	5.4	12
					12/05/2023	8.4 DNQ	5.3	11
					12/12/2023	8.7 DNQ	5.5	12
					Annual Mean	9.3 DNQ		
					Annual Max	14		
	Arsenic wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	2.8	0.25	2.5
					01/17/2023	1.9 DNQ	0.25	2.5
					02/07/2023	2.2 DNQ	1.4	2.9
					02/14/2023	1.8 DNQ	1.4	3.0
					03/07/2023	1.9 DNQ	1.4	3.0
					03/14/2023	1.6 DNQ	1.4	3.1
					04/04/2023	2.6 DNQ	1.4	3.0
					04/11/2023	2.5 DNQ	1.4	3.0
					05/02/2023	2.2 DNQ	1.4	3.0
					05/09/2023	2.2 DNQ	1.4	3.0
					06/06/2023	2.1 DNQ	1.4	3.0
					06/13/2023	2.3 DNQ	1.4	3.0
					07/11/2023	ND	1.4	2.9
					07/17/2023	1.5 DNQ	1.4	3.0
					08/08/2023	ND	1.4	2.9
					08/22/2023	1.5 DNQ	1.4	3.0
					09/19/2023	1.5 DNQ	1.4	3.0
					10/03/2023	ND	1.4	3.0
					10/10/2023	1.6 DNQ	1.4	3.0
					11/07/2023	ND	1.4	3.0
					11/15/2023	ND	1.4	3.0
					12/05/2023	1.7 DNQ	1.4	3.0
					12/12/2023	1.7 DNQ	1.4	3.0
					Annual Mean	1.9 DNQ		
					Annual Max	2.8		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	3.4	0.26	2.5
					01/17/2023	2.3 DNQ	0.25	2.5
					02/07/2023	2.6 DNQ	1.4	3.0
					02/14/2023	2.6 DNQ	1.4	3.0
					03/07/2023	2.4 DNQ	1.4	3.0
					03/14/2023	2.1 DNQ	1.4	3.0
					04/04/2023	3.9	1.4	3.0
					04/11/2023	3.6	1.4	3.0
					05/02/2023	2.7 DNQ	1.4	3.0
					05/09/2023	2.8 DNQ	1.4	3.0
					06/06/2023	3.3	1.4	3.0
					06/13/2023	3.6	1.4	3.0
					07/11/2023	1.8 DNQ	1.4	3.0
					07/18/2023	2.1 DNQ	1.4	3.0
					08/08/2023	2.0 DNQ	1.4	2.9
					08/22/2023	2.3 DNQ	1.4	3.0
					09/19/2023	2.0 DNQ	1.4	3.0
					10/03/2023	2.0 DNQ	1.4	3.0
					10/10/2023	2.0 DNQ	1.4	3.0
					11/07/2023	1.9 DNQ	1.4	3.0
					11/14/2023	1.4 DNQ	1.4	3.0
					12/05/2023	2.2 DNQ	1.4	3.0
					12/12/2023	2.2 DNQ	1.4	3.0
					Annual Mean	2.5 DNQ		
					Annual Max	3.9		
	Barium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	460	0.19	19
					07/11/2023	460	0.58	12
					Annual Mean	460		
					Annual Max	460		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	1100	0.19	19
					07/11/2023	1100	0.50	11
					Annual Mean	1100		
					Annual Max	1100		
	Barium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	120	0.051	5.0
					07/11/2023	110	0.14	2.9
					Annual Mean	120		
					Annual Max	120		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	300	0.051	5.0
					07/11/2023	310	0.14	3.0
					Annual Mean	300		
					Annual Max	310		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Beryllium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	0.13 DNQ	0.022	0.19
					07/11/2023	0.30 DNQ	0.28	2.0
					Annual Mean	0.22 DNQ		
					Annual Max	0.30 DNQ		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	0.12 DNQ	0.022	0.19
					07/11/2023	0.43 DNQ	0.24	1.8
					Annual Mean	0.28 DNQ		
					Annual Max	0.43 DNQ		
	Beryllium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	0.034 DNQ	0.0058	0.050
					07/11/2023	0.072 DNQ	0.068	0.49
					Annual Mean	0.053 DNQ		
					Annual Max	0.072 DNQ		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.031 DNQ	0.0059	0.050
					07/11/2023	0.12 DNQ	0.068	0.50
					Annual Mean	0.075 DNQ		
					Annual Max	0.12 DNQ		
	Cadmium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	2.9	0.16	0.38
					01/17/2023	3.5	0.18	0.42
					02/07/2023	2.1	0.66	2.0
					02/14/2023	1.7 DNQ	0.67	2.0
					03/07/2023	2.2	0.64	2.0
					03/14/2023	2.6	0.69	2.1
					04/04/2023	3.0	0.63	2.0
					04/11/2023	6.1	0.65	2.0
					05/02/2023	3.5	0.66	2.1
					05/09/2023	2.5	0.68	2.1
					06/06/2023	ND	0.67	2.1
					06/13/2023	ND	0.68	2.1
					07/11/2023	3.3	0.67	2.0
					07/17/2023	3.0	0.68	2.1
					08/08/2023	3.2	0.68	2.1
					08/22/2023	4.0	0.64	2.0
					09/19/2023	3.5	0.62	1.9
					10/03/2023	3.6	0.66	2.1
					10/10/2023	3.8	0.65	2.0
					11/07/2023	4.1	0.68	2.1
					11/15/2023	ND	0.69	2.1
					12/05/2023	3.7	0.62	1.9
					12/12/2023	3.9	0.64	2.0
					Annual Mean	3.0 DNQ		
					Annual Max	6.1		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	0.90	0.16	0.37
					01/17/2023	1.1	0.16	0.37
					02/07/2023	1.4 DNQ	0.59	1.8
					02/14/2023	1.5 DNQ	0.61	1.8
					03/07/2023	2.1	0.59	1.8
					03/14/2023	2.2	0.64	1.9
					04/04/2023	2.9	0.58	1.8
					04/11/2023	6.9	0.58	1.8
					05/02/2023	3.8	0.65	1.9
					05/09/2023	2.0	0.68	2.0
					06/06/2023	ND	0.59	1.8
					06/13/2023	ND	0.59	1.9
					07/11/2023	3.0	0.57	1.8
					07/18/2023	3.7	0.60	1.9
					08/08/2023	3.8	0.61	1.9
					08/22/2023	4.5	0.66	2.1
					09/19/2023	2.7	0.59	1.9
					10/03/2023	2.9	0.59	1.9
					10/10/2023	2.9	0.62	1.9
					11/07/2023	2.5	0.64	1.9
					11/14/2023	ND	0.66	2.0
					12/05/2023	2.2	0.61	1.9
					12/12/2023	2.2	0.63	2.0
					Annual Mean	2.5 DNQ		
					Annual Max	6.9		
	Cadmium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	0.77	0.042	0.099
					01/17/2023	0.84	0.042	0.099
					02/07/2023	0.51	0.16	0.49
					02/14/2023	0.44 DNQ	0.17	0.51
					03/07/2023	0.56	0.16	0.50
					03/14/2023	0.63	0.17	0.51
					04/04/2023	0.76	0.16	0.50
					04/11/2023	1.5	0.16	0.49
					05/02/2023	0.85	0.16	0.50
					05/09/2023	0.58	0.16	0.50
					06/06/2023	ND	0.16	0.50
					06/13/2023	ND	0.16	0.49
					07/11/2023	0.78	0.16	0.49
					07/17/2023	0.70	0.16	0.50

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					08/08/2023	0.76	0.16	0.49
					08/22/2023	1.0	0.16	0.50
					09/19/2023	0.91	0.16	0.50
					10/03/2023	0.88	0.16	0.50
					10/10/2023	0.94	0.16	0.50
					11/07/2023	0.96	0.16	0.50
					11/15/2023	ND	0.17	0.51
					12/05/2023	0.94	0.16	0.50
					12/12/2023	0.98	0.16	0.50
					Annual Mean	0.73 DNQ		
					Annual Max	1.5		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.24	0.042	0.10
					01/17/2023	0.31	0.042	0.099
					02/07/2023	0.39 DNQ	0.16	0.50
					02/14/2023	0.43 DNQ	0.17	0.51
					03/07/2023	0.59	0.17	0.51
					03/14/2023	0.57	0.17	0.51
					04/04/2023	0.79	0.16	0.50
					04/11/2023	1.9	0.16	0.50
					05/02/2023	1.0	0.17	0.51
					05/09/2023	0.49 DNQ	0.17	0.51
					06/06/2023	ND	0.16	0.49
					06/13/2023	ND	0.16	0.50
					07/11/2023	0.85	0.16	0.50
					07/18/2023	0.98	0.16	0.50
					08/08/2023	1.0	0.16	0.49
					08/22/2023	1.1	0.16	0.50
					09/19/2023	0.73	0.16	0.50
					10/03/2023	0.78	0.16	0.50
					10/10/2023	0.78	0.17	0.51
					11/07/2023	0.67	0.17	0.51
					11/14/2023	ND	0.17	0.51
					12/05/2023	0.58	0.16	0.50
					12/12/2023	0.55	0.16	0.50
					Annual Mean	0.66 DNQ		
					Annual Max	1.9		
	Chromium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	34	0.61	0.95
					01/17/2023	39	0.67	1.1
					02/07/2023	33	0.74	4.0
					02/14/2023	35	0.75	4.0
					03/07/2023	39	0.76	4.0
					03/14/2023	38	0.77	4.1
					04/04/2023	43	0.75	4.0
					04/11/2023	41	0.73	4.0
					05/02/2023	33	0.79	4.1
					05/09/2023	39	0.81	4.2
					06/06/2023	36	0.75	4.1
					06/13/2023	39	0.77	4.2
					07/11/2023	41	0.75	4.1
					07/17/2023	38	0.80	4.2
					08/08/2023	32	0.76	4.2
					08/22/2023	44	0.76	4.0
					09/19/2023	38	0.70	3.9
					10/03/2023	49	0.78	4.1
					10/10/2023	49	0.73	4.0
					11/07/2023	51	0.80	4.2
					11/15/2023	45	0.78	4.1
					12/05/2023	38	0.74	3.9
					12/12/2023	37	0.76	4.0
					Annual Mean	40		
					Annual Max	51		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	41	0.60	0.94
					01/17/2023	37	0.59	0.93
					02/07/2023	33	0.70	3.7
					02/14/2023	35	0.68	3.6
					03/07/2023	35	0.66	3.5
					03/14/2023	35	0.72	3.8
					04/04/2023	40	0.66	3.6
					04/11/2023	36	0.69	3.6
					05/02/2023	30	0.72	3.8
					05/09/2023	40	0.76	4.0
					06/06/2023	45	0.67	3.7
					06/13/2023	48	0.70	3.7
					07/11/2023	50	0.64	3.5
					07/18/2023	53	0.72	3.8
					08/08/2023	50	0.69	3.7
					08/22/2023	58	0.74	4.1
					09/19/2023	45	0.71	3.7
					10/03/2023	59	0.71	3.7
					10/10/2023	51	0.70	3.7

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					11/07/2023	60	0.71	3.8
					11/14/2023	54	0.73	3.9
					12/05/2023	49	0.72	3.8
					12/12/2023	47	0.75	3.9
					Annual Mean	45		
					Annual Max	60		
	Chromium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	8.9	0.16	0.25
					01/17/2023	9.4	0.16	0.25
					02/07/2023	7.9	0.18	0.98
					02/14/2023	8.9	0.19	1.0
					03/07/2023	9.6	0.19	1.0
					03/14/2023	9.4	0.19	1.0
					04/04/2023	11	0.19	1.0
					04/11/2023	10	0.18	0.99
					05/02/2023	7.9	0.19	1.0
					05/09/2023	9.2	0.19	1.0
					06/06/2023	8.6	0.18	0.99
					06/13/2023	9.1	0.18	0.99
					07/11/2023	9.9	0.18	0.98
					07/17/2023	9.0	0.19	1.0
					08/08/2023	7.5	0.18	0.98
					08/22/2023	11	0.19	1.0
					09/19/2023	9.7	0.18	0.99
					10/03/2023	12	0.19	1.0
					10/10/2023	12	0.18	0.99
					11/07/2023	12	0.19	1.0
					11/15/2023	11	0.19	1.0
					12/05/2023	9.7	0.19	1.0
					12/12/2023	9.2	0.19	1.0
					Annual Mean	9.7		
					Annual Max	12		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	11	0.16	0.25
					01/17/2023	9.9	0.16	0.25
					02/07/2023	9.1	0.19	1.0
					02/14/2023	9.6	0.19	1.0
					03/07/2023	10	0.19	1.0
					03/14/2023	9.2	0.19	1.0
					04/04/2023	11	0.18	0.99
					04/11/2023	10	0.19	1.0
					05/02/2023	8.0	0.19	1.0
					05/09/2023	9.9	0.19	1.0
					06/06/2023	12	0.18	0.99
					06/13/2023	13	0.19	1.0
					07/11/2023	14	0.18	0.99
					07/18/2023	14	0.19	1.0
					08/08/2023	13	0.18	0.98
					08/22/2023	14	0.18	0.99
					09/19/2023	12	0.19	1.0
					10/03/2023	16	0.19	1.0
					10/10/2023	14	0.19	1.0
					11/07/2023	16	0.19	1.0
					11/14/2023	14	0.19	1.0
					12/05/2023	13	0.19	1.0
					12/12/2023	12	0.19	1.0
					Annual Mean	12		
					Annual Max	16		
	Cobalt	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	4.2	0.080	0.95
					07/11/2023	6.3	0.80	4.1
					Annual Mean	5.2		
					Annual Max	6.3		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	4.5	0.079	0.94
					07/11/2023	6.1	0.70	3.5
					Annual Mean	5.3		
					Annual Max	6.1		
	Cobalt wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	1.1	0.021	0.25
					07/11/2023	1.5	0.20	0.98
					Annual Mean	1.3		
					Annual Max	1.5		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	1.2	0.021	0.25
					07/11/2023	1.7	0.20	0.99
					Annual Mean	1.5		
					Annual Max	1.7		
	Copper	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	380	0.42	0.95
					01/17/2023	460	0.46	1.1
					02/07/2023	390	3.9	8.3
					02/14/2023	430	3.8	7.9
					03/07/2023	390	3.9	8.0
					03/14/2023	380	4.0	8.1
					04/04/2023	400	3.8	7.9
					04/11/2023	400	3.8	8.2

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					05/02/2023	450	4.0	8.3
					05/09/2023	420	4.1	8.5
					06/06/2023	410	4.0	8.4
					06/13/2023	470	4.0	8.5
					07/11/2023	420	3.9	8.3
					07/17/2023	390	4.0	8.4
					08/08/2023	390	3.9	8.5
					08/22/2023	480	3.8	8.0
					09/19/2023	370	3.7	7.8
					10/03/2023	450	4.0	8.2
					10/10/2023	450	3.9	8.1
					11/07/2023	420	4.1	8.4
					11/15/2023	360	4.0	8.2
					12/05/2023	430	3.7	7.8
					12/12/2023	400	3.8	8.0
					Annual Mean	410		
					Annual Max	480		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	340	0.45	0.94
					01/17/2023	330	0.41	0.93
					02/07/2023	310	3.5	7.3
					02/14/2023	300	3.5	7.2
					03/07/2023	300	3.4	7.0
					03/14/2023	310	3.7	7.5
					04/04/2023	340	3.5	7.3
					04/11/2023	320	3.5	7.3
					05/02/2023	350	3.7	7.6
					05/09/2023	350	3.9	8.0
					06/06/2023	360	3.5	7.4
					06/13/2023	360	3.6	7.4
					07/11/2023	320	3.4	7.1
					07/18/2023	350	3.6	7.5
					08/08/2023	330	3.6	7.6
					08/22/2023	400	3.9	8.2
					09/19/2023	310	3.6	7.4
					10/03/2023	410	3.6	7.4
					10/10/2023	370	3.6	7.3
					11/07/2023	330	3.6	7.5
					11/14/2023	270	3.7	7.7
					12/05/2023	290	3.6	7.6
					12/12/2023	290	3.8	7.9
					Annual Mean	330		
					Annual Max	410		
	Copper wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	100	0.11	0.25
					01/17/2023	110	0.11	0.25
					02/07/2023	95	0.94	2.0
					02/14/2023	110	0.97	2.0
					03/07/2023	96	0.96	2.0
					03/14/2023	94	0.98	2.0
					04/04/2023	100	0.95	2.0
					04/11/2023	98	0.94	2.0
					05/02/2023	110	0.96	2.0
					05/09/2023	100	0.96	2.0
					06/06/2023	98	0.95	2.0
					06/13/2023	110	0.94	2.0
					07/11/2023	100	0.94	2.0
					07/17/2023	92	0.95	2.0
					08/08/2023	91	0.93	2.0
					08/22/2023	120	0.95	2.0
					09/19/2023	96	0.95	2.0
					10/03/2023	110	0.96	2.0
					10/10/2023	110	0.95	2.0
					11/07/2023	100	0.96	2.0
					11/15/2023	88	0.97	2.0
					12/05/2023	110	0.95	2.0
					12/12/2023	100	0.96	2.0
					Annual Mean	100		
					Annual Max	120		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	92	0.12	0.25
					01/17/2023	90	0.11	0.25
					02/07/2023	84	0.96	2.0
					02/14/2023	84	0.97	2.0
					03/07/2023	86	0.97	2.0
					03/14/2023	82	0.97	2.0
					04/04/2023	94	0.95	2.0
					04/11/2023	88	0.95	2.0
					05/02/2023	92	0.97	2.0
					05/09/2023	87	0.97	2.0
					06/06/2023	96	0.94	2.0
					06/13/2023	96	0.96	2.0
					07/11/2023	90	0.95	2.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					07/18/2023	93	0.96	2.0
					08/08/2023	87	0.94	2.0
					08/22/2023	98	0.95	2.0
					09/19/2023	84	0.96	2.0
					10/03/2023	110	0.96	2.0
					10/10/2023	100	0.97	2.0
					11/07/2023	88	0.97	2.0
					11/14/2023	70	0.97	2.0
					12/05/2023	77	0.95	2.0
					12/12/2023	74	0.96	2.0
					Annual Mean	89		
					Annual Max	110		
	Iron	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	57000	4.6	76
					07/11/2023	63000	25	100
					Annual Mean	60000		
					Annual Max	63000		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	67000	4.5	75
					07/11/2023	68000	21	89
					Annual Mean	68000		
					Annual Max	68000		
	Iron wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	15000	1.2	20
					07/11/2023	15000	5.9	25
					Annual Mean	15000		
					Annual Max	15000		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	18000	1.2	20
					07/11/2023	19000	6.0	25
					Annual Mean	18000		
					Annual Max	19000		
	Lead	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	3.6	0.53	1.9
					01/17/2023	6.3	0.59	2.1
					02/07/2023	7.4 DNQ	1.7	8.3
					02/14/2023	11	1.6	7.9
					03/07/2023	13	1.6	8.0
					03/14/2023	9.3	1.7	8.1
					04/04/2023	12	1.6	7.9
					04/11/2023	8.2	1.6	8.2
					05/02/2023	12	1.7	8.3
					05/09/2023	9.3	1.7	8.5
					06/06/2023	11	1.7	8.4
					06/13/2023	11	1.7	8.5
					07/11/2023	10	1.7	8.3
					07/17/2023	11	1.7	8.4
					08/08/2023	12	1.7	8.5
					08/22/2023	16	1.6	8.0
					09/19/2023	9.7	1.6	7.8
					10/03/2023	13	1.7	8.2
					10/10/2023	13	1.6	8.1
					11/07/2023	13	1.7	8.4
					11/15/2023	11	1.7	8.2
					12/05/2023	13	1.6	7.8
					12/12/2023	ND	1.6	8.0
					Annual Mean	10 DNQ		
					Annual Max	16		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	ND	0.52	1.9
					01/17/2023	3.0	0.52	1.8
					02/07/2023	8.1	1.5	7.3
					02/14/2023	4.0 DNQ	1.5	7.2
					03/07/2023	10	1.5	7.0
					03/14/2023	9.8	1.6	7.5
					04/04/2023	11	1.5	7.3
					04/11/2023	7.3	1.5	7.3
					05/02/2023	9.5	1.6	7.6
					05/09/2023	8.0	1.7	8.0
					06/06/2023	12	1.5	7.4
					06/13/2023	11	1.5	7.4
					07/11/2023	8.6	1.4	7.1
					07/18/2023	9.8	1.5	7.5
					08/08/2023	11	1.5	7.6
					08/22/2023	13	1.6	8.2
					09/19/2023	11	1.5	7.4
					10/03/2023	13	1.5	7.4
					10/10/2023	13	1.5	7.3
					11/07/2023	13	1.5	7.5
					11/14/2023	10	1.6	7.7
					12/05/2023	11	1.6	7.6
					12/12/2023	ND	1.6	7.9
					Annual Mean	9.1 DNQ		
					Annual Max	13		
	Lead wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	0.95	0.14	0.50
					01/17/2023	1.5	0.14	0.50

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					02/07/2023	1.8 DNQ	0.40	2.0
					02/14/2023	2.7	0.41	2.0
					03/07/2023	3.3	0.41	2.0
					03/14/2023	2.3	0.42	2.0
					04/04/2023	3.1	0.41	2.0
					04/11/2023	2.0	0.40	2.0
					05/02/2023	2.8	0.41	2.0
					05/09/2023	2.2	0.41	2.0
					06/06/2023	2.7	0.40	2.0
					06/13/2023	2.5	0.40	2.0
					07/11/2023	2.5	0.40	2.0
					07/17/2023	2.5	0.41	2.0
					08/08/2023	2.8	0.40	2.0
					08/22/2023	4.0	0.41	2.0
					09/19/2023	2.5	0.40	2.0
					10/03/2023	3.2	0.41	2.0
					10/10/2023	3.2	0.40	2.0
					11/07/2023	3.1	0.41	2.0
					11/15/2023	2.7	0.41	2.0
					12/05/2023	3.3	0.41	2.0
					12/12/2023	ND	0.41	2.0
					Annual Mean	2.5 DNQ		
					Annual Max	4.0		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	0.14	0.50
					01/17/2023	0.81	0.14	0.49
					02/07/2023	2.2	0.41	2.0
					02/14/2023	1.1 DNQ	0.42	2.0
					03/07/2023	2.9	0.42	2.0
					03/14/2023	2.6	0.42	2.0
					04/04/2023	3.0	0.40	2.0
					04/11/2023	2.0	0.41	2.0
					05/02/2023	2.5	0.41	2.0
					05/09/2023	2.0	0.42	2.0
					06/06/2023	3.1	0.40	2.0
					06/13/2023	2.9	0.41	2.0
					07/11/2023	2.4	0.40	2.0
					07/18/2023	2.6	0.41	2.0
					08/08/2023	2.9	0.40	2.0
					08/22/2023	3.2	0.40	2.0
					09/19/2023	2.9	0.41	2.0
					10/03/2023	3.5	0.41	2.0
					10/10/2023	3.6	0.42	2.0
					11/07/2023	3.4	0.41	2.0
					11/14/2023	2.6	0.41	2.0
					12/05/2023	2.8	0.41	2.0
					12/12/2023	ND	0.41	2.0
					Annual Mean	2.4 DNQ		
					Annual Max	3.6		
	Mercury	EPA 7471B	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	0.53	0.12	0.32
					01/17/2023	0.55	0.13	0.34
					02/07/2023	0.87	0.13	0.34
					02/14/2023	0.71	0.13	0.34
					03/07/2023	0.56	0.12	0.33
					03/14/2023	0.77	0.13	0.35
					04/04/2023	0.87	0.12	0.32
					04/11/2023	0.86	0.13	0.33
					05/02/2023	0.50	0.14	0.35
					05/09/2023	0.68	0.14	0.35
					06/06/2023	0.46	0.13	0.35
					06/13/2023	0.68	0.13	0.34
					07/11/2023	0.54	0.13	0.33
					07/17/2023	0.59	0.14	0.36
					08/08/2023	0.47	0.14	0.36
					08/22/2023	0.64	0.13	0.34
					09/19/2023	0.51	0.12	0.32
					10/03/2023	0.49	0.14	0.36
					10/10/2023	0.45	0.13	0.33
					11/07/2023	0.46	0.14	0.35
					11/15/2023	0.78	0.12	0.32
					12/05/2023	0.43	0.13	0.34
					12/12/2023	0.52	0.12	0.32
					Annual Mean	0.61		
					Annual Max	0.87		
		EPA 7471B	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	0.45	0.12	0.31
					01/17/2023	0.74	0.11	0.30
					02/07/2023	0.59	0.12	0.31
					02/14/2023	0.61	0.12	0.30
					03/07/2023	0.56	0.11	0.29
					03/14/2023	0.45	0.12	0.32
					04/04/2023	0.58	0.11	0.30

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/11/2023	0.44	0.12	0.31
					05/02/2023	0.36	0.13	0.32
					05/09/2023	0.52	0.13	0.33
					06/06/2023	0.45	0.12	0.30
					06/13/2023	0.37	0.11	0.30
					07/11/2023	0.43	0.11	0.29
					07/18/2023	0.57	0.12	0.32
					08/08/2023	0.42	0.12	0.31
					08/22/2023	0.49	0.12	0.33
					09/19/2023	0.36	0.11	0.29
					10/03/2023	0.56	0.12	0.30
					10/10/2023	0.44	0.11	0.29
					11/07/2023	0.41	0.12	0.31
					11/14/2023	0.77	0.13	0.33
					12/05/2023	0.53	0.13	0.33
					12/12/2023	0.75	0.13	0.33
					Annual Mean	0.52		
					Annual Max	0.77		
	Mercury wet weight	EPA 7471B	mg/kg	Plant 1 Dewatering Cake	01/10/2023	0.14	0.032	0.083
					01/17/2023	0.13	0.031	0.082
					02/07/2023	0.21	0.031	0.082
					02/14/2023	0.18	0.033	0.085
					03/07/2023	0.14	0.031	0.082
					03/14/2023	0.19	0.033	0.085
					04/04/2023	0.22	0.031	0.082
					04/11/2023	0.21	0.031	0.080
					05/02/2023	0.12	0.033	0.085
					05/09/2023	0.16	0.032	0.083
					06/06/2023	0.11	0.032	0.083
					06/13/2023	0.16	0.030	0.079
					07/11/2023	0.13	0.031	0.080
					07/17/2023	0.14	0.033	0.085
					08/08/2023	0.11	0.033	0.085
					08/22/2023	0.16	0.033	0.085
					09/19/2023	0.13	0.032	0.083
					10/03/2023	0.12	0.033	0.087
					10/10/2023	0.11	0.031	0.080
					11/07/2023	0.11	0.032	0.083
					11/15/2023	0.19	0.030	0.079
					12/05/2023	0.11	0.033	0.087
					12/12/2023	0.13	0.031	0.080
					Annual Mean	0.15		
					Annual Max	0.22		
		EPA 7471B	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.12	0.032	0.083
					01/17/2023	0.20	0.031	0.082
					02/07/2023	0.16	0.033	0.085
					02/14/2023	0.17	0.032	0.083
					03/07/2023	0.16	0.031	0.082
					03/14/2023	0.12	0.033	0.085
					04/04/2023	0.16	0.031	0.082
					04/11/2023	0.12	0.033	0.085
					05/02/2023	0.094	0.033	0.085
					05/09/2023	0.13	0.032	0.083
					06/06/2023	0.12	0.031	0.080
					06/13/2023	0.10	0.031	0.080
					07/11/2023	0.12	0.031	0.082
					07/18/2023	0.15	0.033	0.085
					08/08/2023	0.11	0.031	0.080
					08/22/2023	0.12	0.030	0.079
					09/19/2023	0.096	0.030	0.079
					10/03/2023	0.15	0.031	0.080
					10/10/2023	0.12	0.031	0.080
					11/07/2023	0.11	0.031	0.082
					11/14/2023	0.20	0.033	0.085
					12/05/2023	0.14	0.033	0.087
					12/12/2023	0.19	0.032	0.083
					Annual Mean	0.14		
					Annual Max	0.20		
	Molybdenum	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	15	0.19	1.9
					01/17/2023	15	0.21	2.1
					02/07/2023	14	2.1	8.3
					02/14/2023	14	2.1	7.9
					03/07/2023	16	2.1	8.0
					03/14/2023	17	2.2	8.1
					04/04/2023	17	2.0	7.9
					04/11/2023	16	2.1	8.2
					05/02/2023	19	2.1	8.3
					05/09/2023	19	2.2	8.5
					06/06/2023	21	2.1	8.4
					06/13/2023	23	2.2	8.5

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					07/11/2023	18	2.1	8.3
					07/17/2023	17	2.2	8.4
					08/08/2023	14	2.1	8.5
					08/22/2023	13	2.0	8.0
					09/19/2023	13	2.0	7.8
					10/03/2023	16	2.1	8.2
					10/10/2023	16	2.1	8.1
					11/07/2023	15	2.2	8.4
					11/15/2023	11	2.1	8.2
					12/05/2023	13	2.0	7.8
					12/12/2023	12	2.1	8.0
					Annual Mean	16		
					Annual Max	23		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	17	0.19	1.9
					01/17/2023	14	0.18	1.8
					02/07/2023	16	1.9	7.3
					02/14/2023	17	1.9	7.2
					03/07/2023	18	1.8	7.0
					03/14/2023	18	2.0	7.5
					04/04/2023	24	1.9	7.3
					04/11/2023	22	1.9	7.3
					05/02/2023	23	2.0	7.6
					05/09/2023	25	2.1	8.0
					06/06/2023	29	1.9	7.4
					06/13/2023	30	1.9	7.4
					07/11/2023	24	1.8	7.1
					07/18/2023	25	2.0	7.5
					08/08/2023	21	1.9	7.6
					08/22/2023	20	2.1	8.2
					09/19/2023	17	1.9	7.4
					10/03/2023	21	1.9	7.4
					10/10/2023	19	1.9	7.3
					11/07/2023	15	2.0	7.5
					11/14/2023	13	2.0	7.7
					12/05/2023	14	1.9	7.6
					12/12/2023	14	2.0	7.9
					Annual Mean	20		
					Annual Max	30		
	Molybdenum wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	3.8	0.050	0.50
					01/17/2023	3.5	0.050	0.50
					02/07/2023	3.3	0.50	2.0
					02/14/2023	3.6	0.52	2.0
					03/07/2023	4.0	0.52	2.0
					03/14/2023	4.1	0.53	2.0
					04/04/2023	4.4	0.51	2.0
					04/11/2023	4.0	0.51	2.0
					05/02/2023	4.6	0.52	2.0
					05/09/2023	4.5	0.52	2.0
					06/06/2023	5.0	0.51	2.0
					06/13/2023	5.3	0.51	2.0
					07/11/2023	4.4	0.50	2.0
					07/17/2023	4.0	0.51	2.0
					08/08/2023	3.4	0.50	2.0
					08/22/2023	3.3	0.51	2.0
					09/19/2023	3.3	0.51	2.0
					10/03/2023	3.8	0.52	2.0
					10/10/2023	3.9	0.51	2.0
					11/07/2023	3.5	0.52	2.0
					11/15/2023	2.8	0.52	2.0
					12/05/2023	3.4	0.51	2.0
					12/12/2023	3.1	0.52	2.0
					Annual Mean	3.9		
					Annual Max	5.3		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	4.5	0.050	0.50
					01/17/2023	3.7	0.049	0.49
					02/07/2023	4.4	0.52	2.0
					02/14/2023	4.7	0.52	2.0
					03/07/2023	5.2	0.52	2.0
					03/14/2023	4.9	0.52	2.0
					04/04/2023	6.5	0.51	2.0
					04/11/2023	6.1	0.51	2.0
					05/02/2023	6.1	0.52	2.0
					05/09/2023	6.2	0.52	2.0
					06/06/2023	7.8	0.51	2.0
					06/13/2023	8.0	0.52	2.0
					07/11/2023	6.8	0.51	2.0
					07/18/2023	6.7	0.52	2.0
					08/08/2023	5.5	0.50	2.0
					08/22/2023	4.9	0.51	2.0
					09/19/2023	4.6	0.52	2.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					10/03/2023	5.6	0.52	2.0
					10/10/2023	5.2	0.52	2.0
					11/07/2023	4.1	0.52	2.0
					11/14/2023	3.3	0.52	2.0
					12/05/2023	3.8	0.51	2.0
					12/12/2023	3.6	0.52	2.0
					Annual Mean	5.3		
					Annual Max	8.0		
	Nickel	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	26	0.53	1.9
					01/17/2023	34	0.59	2.1
					02/07/2023	31	1.4	8.3
					02/14/2023	30	1.5	7.9
					03/07/2023	36	1.4	8.0
					03/14/2023	30	1.5	8.1
					04/04/2023	38	1.4	7.9
					04/11/2023	33	1.5	8.2
					05/02/2023	29	1.5	8.3
					05/09/2023	36	1.5	8.5
					06/06/2023	27	1.5	8.4
					06/13/2023	29	1.5	8.5
					07/11/2023	34	1.5	8.3
					07/17/2023	40	1.5	8.4
					08/08/2023	30	1.5	8.5
					08/22/2023	33	1.4	8.0
					09/19/2023	28	1.4	7.8
					10/03/2023	35	1.5	8.2
					10/10/2023	45	1.5	8.1
					11/07/2023	41	1.5	8.4
					11/15/2023	45	1.5	8.2
					12/05/2023	39	1.4	7.8
					12/12/2023	33	1.4	8.0
					Annual Mean	34		
					Annual Max	45		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	22	0.52	1.9
					01/17/2023	23	0.52	1.8
					02/07/2023	26	1.3	7.3
					02/14/2023	26	1.3	7.2
					03/07/2023	29	1.3	7.0
					03/14/2023	25	1.4	7.5
					04/04/2023	31	1.3	7.3
					04/11/2023	27	1.3	7.3
					05/02/2023	26	1.4	7.6
					05/09/2023	30	1.5	8.0
					06/06/2023	26	1.3	7.4
					06/13/2023	25	1.3	7.4
					07/11/2023	28	1.3	7.1
					07/18/2023	32	1.4	7.5
					08/08/2023	32	1.3	7.6
					08/22/2023	34	1.5	8.2
					09/19/2023	30	1.3	7.4
					10/03/2023	45	1.3	7.4
					10/10/2023	40	1.4	7.3
					11/07/2023	31	1.4	7.5
					11/14/2023	34	1.4	7.7
					12/05/2023	27	1.4	7.6
					12/12/2023	31	1.4	7.9
					Annual Mean	30		
					Annual Max	45		
	Nickel wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	6.7	0.14	0.50
					01/17/2023	8.1	0.14	0.50
					02/07/2023	7.5	0.35	2.0
					02/14/2023	7.6	0.37	2.0
					03/07/2023	9.0	0.36	2.0
					03/14/2023	7.5	0.37	2.0
					04/04/2023	9.7	0.36	2.0
					04/11/2023	8.0	0.36	2.0
					05/02/2023	7.1	0.36	2.0
					05/09/2023	8.6	0.36	2.0
					06/06/2023	6.5	0.36	2.0
					06/13/2023	6.9	0.36	2.0
					07/11/2023	8.1	0.35	2.0
					07/17/2023	9.4	0.36	2.0
					08/08/2023	7.1	0.35	2.0
					08/22/2023	8.2	0.36	2.0
					09/19/2023	7.1	0.36	2.0
					10/03/2023	8.4	0.36	2.0
					10/10/2023	11	0.36	2.0
					11/07/2023	9.8	0.36	2.0
					11/15/2023	11	0.37	2.0
					12/05/2023	10	0.36	2.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					12/12/2023	8.3	0.36	2.0
					Annual Mean	8.3		
					Annual Max	11		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	5.8	0.14	0.50
					01/17/2023	6.3	0.14	0.49
					02/07/2023	7.0	0.36	2.0
					02/14/2023	7.3	0.37	2.0
					03/07/2023	8.4	0.37	2.0
					03/14/2023	6.7	0.37	2.0
					04/04/2023	8.4	0.36	2.0
					04/11/2023	7.5	0.36	2.0
					05/02/2023	6.8	0.37	2.0
					05/09/2023	7.5	0.37	2.0
					06/06/2023	7.0	0.36	2.0
					06/13/2023	6.8	0.36	2.0
					07/11/2023	7.8	0.36	2.0
					07/18/2023	8.4	0.36	2.0
					08/08/2023	8.4	0.35	2.0
					08/22/2023	8.3	0.36	2.0
					09/19/2023	8.0	0.36	2.0
					10/03/2023	12	0.36	2.0
					10/10/2023	11	0.37	2.0
					11/07/2023	8.2	0.37	2.0
					11/14/2023	8.7	0.37	2.0
					12/05/2023	7.1	0.36	2.0
					12/12/2023	7.9	0.36	2.0
					Annual Mean	7.9		
					Annual Max	12		
	Selenium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	3.8	0.95	1.9
					01/17/2023	7.6	1.1	2.1
					02/07/2023	8.7 DNQ	5.0	12
					02/14/2023	7.9 DNQ	4.7	12
					03/07/2023	9.6 DNQ	4.8	12
					03/14/2023	7.3 DNQ	4.9	13
					04/04/2023	8.7 DNQ	4.7	12
					04/11/2023	11 DNQ	4.9	12
					05/02/2023	10 DNQ	5.0	12
					05/09/2023	11 DNQ	5.1	13
					06/06/2023	8.8 DNQ	5.0	13
					06/13/2023	8.5 DNQ	5.1	13
					07/11/2023	8.3 DNQ	5.0	12
					07/17/2023	8.0 DNQ	5.1	13
					08/08/2023	ND	5.1	12
					08/22/2023	7.2 DNQ	4.8	12
					09/19/2023	5.8 DNQ	4.7	12
					10/03/2023	7.8 DNQ	4.9	12
					10/10/2023	ND	4.9	12
					11/07/2023	6.8 DNQ	5.1	13
					11/15/2023	7.8 DNQ	4.9	12
					12/05/2023	5.4 DNQ	4.7	12
					12/12/2023	4.8 DNQ	4.8	12
					Annual Mean	7.6 DNQ		
					Annual Max	7.6		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	2.7	0.94	1.9
					01/17/2023	6.3	0.89	1.8
					02/07/2023	8.1 DNQ	4.4	11
					02/14/2023	5.8 DNQ	4.3	11
					03/07/2023	8.0 DNQ	4.2	10
					03/14/2023	6.8 DNQ	4.5	11
					04/04/2023	8.4 DNQ	4.4	11
					04/11/2023	11	4.4	11
					05/02/2023	9.1 DNQ	4.6	11
					05/09/2023	12	4.8	12
					06/06/2023	8.6 DNQ	4.5	11
					06/13/2023	7.4 DNQ	4.4	11
					07/11/2023	7.9 DNQ	4.3	11
					07/18/2023	5.7 DNQ	4.5	11
					08/08/2023	6.1 DNQ	4.6	11
					08/22/2023	7.8 DNQ	4.9	12
					09/19/2023	6.3 DNQ	4.5	11
					10/03/2023	8.9 DNQ	4.5	11
					10/10/2023	4.4 DNQ	4.4	11
					11/07/2023	6.0 DNQ	4.5	11
					11/14/2023	8.9 DNQ	4.6	12
					12/05/2023	5.7 DNQ	4.6	11
					12/12/2023	4.7 DNQ	4.7	12
					Annual Mean	7.2 DNQ		
					Annual Max	12		
	Selenium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	1.0	0.25	0.50
					01/17/2023	1.8	0.25	0.50

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					02/07/2023	2.1 DNQ	1.2	2.9
					02/14/2023	2.0 DNQ	1.2	3.0
					03/07/2023	2.4 DNQ	1.2	3.0
					03/14/2023	1.8 DNQ	1.2	3.1
					04/04/2023	2.2 DNQ	1.2	3.0
					04/11/2023	2.6 DNQ	1.2	3.0
					05/02/2023	2.5 DNQ	1.2	3.0
					05/09/2023	2.6 DNQ	1.2	3.0
					06/06/2023	2.1 DNQ	1.2	3.0
					06/13/2023	2.0 DNQ	1.2	3.0
					07/11/2023	2.0 DNQ	1.2	2.9
					07/17/2023	1.9 DNQ	1.2	3.0
					08/08/2023	ND	1.2	2.9
					08/22/2023	1.8 DNQ	1.2	3.0
					09/19/2023	1.5 DNQ	1.2	3.0
					10/03/2023	1.9 DNQ	1.2	3.0
					10/10/2023	ND	1.2	3.0
					11/07/2023	1.6 DNQ	1.2	3.0
					11/15/2023	1.9 DNQ	1.2	3.0
					12/05/2023	1.4 DNQ	1.2	3.0
					12/12/2023	1.2 DNQ	1.2	3.0
					Annual Mean	1.9 DNQ		
					Annual Max	2.6 DNQ		
		EPA 6010	mg/kg	Plant 2	01/10/2023	0.71	0.25	0.50
				Dewatering Cake	01/17/2023	1.7	0.24	0.49
					02/07/2023	2.2 DNQ	1.2	3.0
					02/14/2023	1.6 DNQ	1.2	3.0
					03/07/2023	2.3 DNQ	1.2	3.0
					03/14/2023	1.8 DNQ	1.2	3.0
					04/04/2023	2.3 DNQ	1.2	3.0
					04/11/2023	3.1	1.2	3.0
					05/02/2023	2.4 DNQ	1.2	3.0
					05/09/2023	3.1	1.2	3.0
					06/06/2023	2.3 DNQ	1.2	3.0
					06/13/2023	2.0 DNQ	1.2	3.0
					07/11/2023	2.2 DNQ	1.2	3.0
					07/18/2023	1.5 DNQ	1.2	3.0
					08/08/2023	1.6 DNQ	1.2	2.9
					08/22/2023	1.9 DNQ	1.2	3.0
					09/19/2023	1.7 DNQ	1.2	3.0
					10/03/2023	2.4 DNQ	1.2	3.0
					10/10/2023	1.2 DNQ	1.2	3.0
					11/07/2023	1.6 DNQ	1.2	3.0
					11/14/2023	2.3 DNQ	1.2	3.0
					12/05/2023	1.5 DNQ	1.2	3.0
					12/12/2023	1.2 DNQ	1.2	3.0
					Annual Mean	1.9 DNQ		
					Annual Max	3.1		
	Silver	EPA 6010	mg/kg dry weight	Plant 1	01/10/2023	2.3	0.046	1.5
				Dewatering Cake	01/17/2023	2.9	0.050	1.7
					02/07/2023	3.8 DNQ	0.58	6.2
					02/14/2023	3.2 DNQ	0.59	5.9
					03/07/2023	3.9 DNQ	0.56	6.0
					03/14/2023	2.6 DNQ	0.61	6.1
					04/04/2023	2.8 DNQ	0.55	5.9
					04/11/2023	2.7 DNQ	0.57	6.1
					05/02/2023	2.4 DNQ	0.58	6.2
					05/09/2023	2.2 DNQ	0.59	6.4
					06/06/2023	2.7 DNQ	0.59	6.3
					06/13/2023	3.4 DNQ	0.60	6.4
					07/11/2023	1.3 DNQ	0.58	6.3
					07/17/2023	ND	0.59	6.3
					08/08/2023	1.9 DNQ	0.59	6.4
					08/22/2023	4.4 DNQ	0.56	6.0
					09/19/2023	1.4 DNQ	0.54	5.8
					10/03/2023	1.8 DNQ	0.58	6.2
					10/10/2023	1.3 DNQ	0.57	6.1
					11/07/2023	3.2 DNQ	0.59	6.3
					11/15/2023	3.3 DNQ	0.61	6.1
					12/05/2023	1.8 DNQ	0.54	5.8
					12/12/2023	1.0 DNQ	0.56	6.0
					Annual Mean	2.5 DNQ		
					Annual Max	2.9		
		EPA 6010	mg/kg dry weight	Plant 2	01/10/2023	1.7	0.045	1.5
				Dewatering Cake	01/17/2023	1.7	0.044	1.4
					02/07/2023	2.5 DNQ	0.51	5.5
					02/14/2023	2.4 DNQ	0.54	5.4
					03/07/2023	2.2 DNQ	0.52	5.2
					03/14/2023	2.0 DNQ	0.57	5.7
					04/04/2023	1.7 DNQ	0.51	5.5

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/11/2023	2.3 DNQ	0.51	5.5
					05/02/2023	1.5 DNQ	0.57	5.7
					05/09/2023	1.4 DNQ	0.60	6.0
					06/06/2023	2.3 DNQ	0.52	5.6
					06/13/2023	2.1 DNQ	0.52	5.6
					07/11/2023	0.79 DNQ	0.50	5.4
					07/18/2023	ND	0.53	5.7
					08/08/2023	1.4 DNQ	0.53	5.7
					08/22/2023	3.7 DNQ	0.58	6.2
					09/19/2023	0.63 DNQ	0.52	5.6
					10/03/2023	0.78 DNQ	0.52	5.6
					10/10/2023	ND	0.55	5.5
					11/07/2023	1.5 DNQ	0.56	5.6
					11/14/2023	1.7 DNQ	0.58	5.8
					12/05/2023	ND	0.53	5.7
					12/12/2023	1.0 DNQ	0.55	5.9
					Annual Mean	1.6 DNQ		
					Annual Max	1.7		
	Silver wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	0.59	0.012	0.40
					01/17/2023	0.68	0.012	0.40
					02/07/2023	0.92 DNQ	0.14	1.5
					02/14/2023	0.80 DNQ	0.15	1.5
					03/07/2023	0.98 DNQ	0.14	1.5
					03/14/2023	0.64 DNQ	0.15	1.5
					04/04/2023	0.71 DNQ	0.14	1.5
					04/11/2023	0.67 DNQ	0.14	1.5
					05/02/2023	0.57 DNQ	0.14	1.5
					05/09/2023	0.53 DNQ	0.14	1.5
					06/06/2023	0.65 DNQ	0.14	1.5
					06/13/2023	0.80 DNQ	0.14	1.5
					07/11/2023	0.32 DNQ	0.14	1.5
					07/17/2023	ND	0.14	1.5
					08/08/2023	0.46 DNQ	0.14	1.5
					08/22/2023	1.1 DNQ	0.14	1.5
					09/19/2023	0.37 DNQ	0.14	1.5
					10/03/2023	0.43 DNQ	0.14	1.5
					10/10/2023	0.33 DNQ	0.14	1.5
					11/07/2023	0.75 DNQ	0.14	1.5
					11/15/2023	0.81 DNQ	0.15	1.5
					12/05/2023	0.47 DNQ	0.14	1.5
					12/12/2023	0.26 DNQ	0.14	1.5
					Annual Mean	0.61 DNQ		
					Annual Max	0.68		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.45	0.012	0.40
					01/17/2023	0.45	0.012	0.39
					02/07/2023	0.67 DNQ	0.14	1.5
					02/14/2023	0.66 DNQ	0.15	1.5
					03/07/2023	0.64 DNQ	0.15	1.5
					03/14/2023	0.52 DNQ	0.15	1.5
					04/04/2023	0.46 DNQ	0.14	1.5
					04/11/2023	0.63 DNQ	0.14	1.5
					05/02/2023	0.39 DNQ	0.15	1.5
					05/09/2023	0.36 DNQ	0.15	1.5
					06/06/2023	0.61 DNQ	0.14	1.5
					06/13/2023	0.57 DNQ	0.14	1.5
					07/11/2023	0.22 DNQ	0.14	1.5
					07/18/2023	ND	0.14	1.5
					08/08/2023	0.36 DNQ	0.14	1.5
					08/22/2023	0.91 DNQ	0.14	1.5
					09/19/2023	0.17 DNQ	0.14	1.5
					10/03/2023	0.21 DNQ	0.14	1.5
					10/10/2023	ND	0.15	1.5
					11/07/2023	0.41 DNQ	0.15	1.5
					11/14/2023	0.43 DNQ	0.15	1.5
					12/05/2023	ND	0.14	1.5
					12/12/2023	0.26 DNQ	0.14	1.5
					Annual Mean	0.43 DNQ		
					Annual Max	0.45		
	Thallium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	ND	0.46	0.95
					07/11/2023	ND	8.8	41
					Annual Mean	<8.8		
					Annual Max	<8.8		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	1.0	0.45	0.94
					07/11/2023	ND	7.5	35
					Annual Mean	4.2 DNQ		
					Annual Max	1.0		
	Thallium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	0.12	0.25
					07/11/2023	ND	2.1	9.8
					Annual Mean	<2.1		
					Annual Max	<2.1		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.28	0.12	0.25
					07/11/2023	ND	2.1	9.9
					Annual Mean	1.2 DNQ		
					Annual Max	0.28		
	Vanadium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	65	0.10	0.95
					07/11/2023	75	0.67	4.1
					Annual Mean	70		
					Annual Max	75		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	130	0.10	0.94
					07/11/2023	100	0.61	3.5
					Annual Mean	120		
					Annual Max	130		
	Vanadium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	17	0.027	0.25
					07/11/2023	18	0.16	0.98
					Annual Mean	18		
					Annual Max	18		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	34	0.027	0.25
					07/11/2023	28	0.17	0.99
					Annual Mean	31		
					Annual Max	34		
	Zinc	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	690	3.2	19
					01/17/2023	800	3.6	21
					02/07/2023	660	4.5	20
					02/14/2023	670	4.7	20
					03/07/2023	680	4.8	20
					03/14/2023	650	4.9	21
					04/04/2023	710	4.7	20
					04/11/2023	730	4.5	20
					05/02/2023	740	5.0	21
					05/09/2023	760	5.1	21
					06/06/2023	710	4.6	21
					06/13/2023	850	4.7	21
					07/11/2023	710	4.6	20
					07/17/2023	680	5.1	21
					08/08/2023	680	4.7	21
					08/22/2023	800	4.8	20
					09/19/2023	660	4.3	19
					10/03/2023	780	4.9	21
					10/10/2023	810	4.5	20
					11/07/2023	760	5.1	21
					11/15/2023	610	4.9	21
					12/05/2023	740	4.7	19
					12/12/2023	720	4.8	20
					Annual Mean	720		
					Annual Max	850		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	600	3.2	19
					01/17/2023	590	3.1	18
					02/07/2023	590	4.4	18
					02/14/2023	580	4.3	18
					03/07/2023	590	4.2	18
					03/14/2023	570	4.5	19
					04/04/2023	660	4.0	18
					04/11/2023	650	4.4	18
					05/02/2023	680	4.6	19
					05/09/2023	680	4.8	20
					06/06/2023	710	4.1	18
					06/13/2023	700	4.4	19
					07/11/2023	640	3.9	18
					07/18/2023	720	4.5	19
					08/08/2023	650	4.2	19
					08/22/2023	780	4.5	21
					09/19/2023	670	4.5	19
					10/03/2023	860	4.5	19
					10/10/2023	770	4.4	19
					11/07/2023	680	4.5	19
					11/14/2023	580	4.6	20
					12/05/2023	610	4.6	19
					12/12/2023	630	4.7	20
					Annual Mean	660		
					Annual Max	860		
	Zinc wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	180	0.85	5.0
					01/17/2023	190	0.85	5.0
					02/07/2023	160	1.1	4.9
					02/14/2023	170	1.2	5.1
					03/07/2023	170	1.2	5.0
					03/14/2023	160	1.2	5.1
					04/04/2023	180	1.2	5.0
					04/11/2023	180	1.1	4.9
					05/02/2023	180	1.2	5.0
					05/09/2023	180	1.2	5.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					06/06/2023	170	1.1	5.0
					06/13/2023	200	1.1	4.9
					07/11/2023	170	1.1	4.9
					07/17/2023	160	1.2	5.0
					08/08/2023	160	1.1	4.9
					08/22/2023	200	1.2	5.0
					09/19/2023	170	1.1	5.0
					10/03/2023	190	1.2	5.0
					10/10/2023	200	1.1	5.0
					11/07/2023	180	1.2	5.0
					11/15/2023	150	1.2	5.1
					12/05/2023	190	1.2	5.0
					12/12/2023	180	1.2	5.0
					Annual Mean	180		
					Annual Max	200		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	160	0.86	5.0
					01/17/2023	160	0.85	4.9
					02/07/2023	160	1.2	5.0
					02/14/2023	160	1.2	5.1
					03/07/2023	170	1.2	5.1
					03/14/2023	150	1.2	5.1
					04/04/2023	180	1.1	5.0
					04/11/2023	180	1.2	5.0
					05/02/2023	180	1.2	5.1
					05/09/2023	170	1.2	5.1
					06/06/2023	190	1.1	4.9
					06/13/2023	190	1.2	5.0
					07/11/2023	180	1.1	5.0
					07/18/2023	190	1.2	5.0
					08/08/2023	170	1.1	4.9
					08/22/2023	190	1.1	5.0
					09/19/2023	180	1.2	5.0
					10/03/2023	230	1.2	5.0
					10/10/2023	210	1.2	5.1
					11/07/2023	180	1.2	5.1
					11/14/2023	150	1.2	5.1
					12/05/2023	160	1.2	5.0
					12/12/2023	160	1.2	5.0
					Annual Mean	180		
					Annual Max	230		
Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	220	2600
					Annual Mean	<220		
					Annual Max	<220		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	240	2900
					Annual Mean	<240		
					Annual Max	<240		
	1,1,1,2-Tetrachloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	58	690
					Annual Mean	<58		
					Annual Max	<58		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	65	770
					Annual Mean	<65		
					Annual Max	<65		
	1,1,1-Trichloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	690	2600
					Annual Mean	<690		
					Annual Max	<690		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	790	2900
					Annual Mean	<790		
					Annual Max	<790		
	1,1,1-Trichloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	180	690
					Annual Mean	<180		
					Annual Max	<180		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	210	770
					Annual Mean	<210		
					Annual Max	<210		
	1,1,2,2-Tetrachloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	310	2600
					Annual Mean	<310		
					Annual Max	<310		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	340	2900
					Annual Mean	<340		
					Annual Max	<340		
	1,1,2,2-Tetrachloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	81	690
					Annual Mean	<81		
					Annual Max	<81		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	90	770
					Annual Mean	<90		
					Annual Max	<90		
	1,1,2-Trichloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	290	2600
					Annual Mean	<290		
					Annual Max	<290		
		EPA 8260C	µg/kg dry	Plant 2	01/10/2023	ND	310	2900

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				Dewatering Cake	Annual Mean	<310		
					Annual Max	<310		
	1,1,2-Trichloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	75	690
					Annual Mean	<75		
					Annual Max	<75		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	84	770
					Annual Mean	<84		
					Annual Max	<84		
	1,1-Dichloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	530	2600
					Annual Mean	<530		
					Annual Max	<530		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	600	2900
					Annual Mean	<600		
					Annual Max	<600		
	1,1-Dichloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	140	690
					Annual Mean	<140		
					Annual Max	<140		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	160	770
					Annual Mean	<160		
					Annual Max	<160		
	1,1-Dichloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	530	2600
					Annual Mean	<530		
					Annual Max	<530		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	600	2900
					Annual Mean	<600		
					Annual Max	<600		
	1,1-Dichloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	140	690
					Annual Mean	<140		
					Annual Max	<140		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	160	770
					Annual Mean	<160		
					Annual Max	<160		
	1,1-Dichloropropene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	2900
					Annual Mean	<560		
					Annual Max	<560		
	1,1-Dichloropropene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	770
					Annual Mean	<150		
					Annual Max	<150		
	1,2,3-Trichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	840	2600
					Annual Mean	<840		
					Annual Max	<840		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	940	2900
					Annual Mean	<940		
					Annual Max	<940		
	1,2,3-Trichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	220	690
					Annual Mean	<220		
					Annual Max	<220		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	250	770
					Annual Mean	<250		
					Annual Max	<250		
	1,2,3-Trichloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	2900
					Annual Mean	<560		
					Annual Max	<560		
	1,2,3-Trichloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	770
					Annual Mean	<150		
					Annual Max	<150		
	1,2,4-Trichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	2900
					Annual Mean	<560		
					Annual Max	<560		
	1,2,4-Trichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	770
					Annual Mean	<150		
					Annual Max	<150		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	1,2,4-Trimethylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	330	2600
					Annual Mean	<330		
					Annual Max	<330		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	360	2900
					Annual Mean	<360		
					Annual Max	<360		
	1,2,4-Trimethylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	86	690
					Annual Mean	<86		
					Annual Max	<86		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	96	770
					Annual Mean	<96		
					Annual Max	<96		
	1,2-Dibromo-3-chloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	920	5300
					Annual Mean	<920		
					Annual Max	<920		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1000	5600
					Annual Mean	<1000		
					Annual Max	<1000		
	1,2-Dibromo-3-chloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	240	1400
					Annual Mean	<240		
					Annual Max	<240		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	270	1500
					Annual Mean	<270		
					Annual Max	<270		
	1,2-Dibromoethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	610	2600
					Annual Mean	<610		
					Annual Max	<610		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	670	2900
					Annual Mean	<670		
					Annual Max	<670		
	1,2-Dibromoethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	160	690
					Annual Mean	<160		
					Annual Max	<160		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	180	770
					Annual Mean	<180		
					Annual Max	<180		
	1,2-Dichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	990	2600
					Annual Mean	<990		
					Annual Max	<990		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1100	2900
					Annual Mean	<1100		
					Annual Max	<1100		
	1,2-Dichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	260	690
					Annual Mean	<260		
					Annual Max	<260		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	290	770
					Annual Mean	<290		
					Annual Max	<290		
	1,2-Dichloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	260	2600
					Annual Mean	<260		
					Annual Max	<260		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	290	2900
					Annual Mean	<290		
					Annual Max	<290		
	1,2-Dichloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	69	690
					Annual Mean	<69		
					Annual Max	<69		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	77	770
					Annual Mean	<77		
					Annual Max	<77		
	1,2-Dichloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	520	2900
					Annual Mean	<520		
					Annual Max	<520		
	1,2-Dichloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	140	770
					Annual Mean	<140		
					Annual Max	<140		
	1,3,5-Trichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	170	2600
					Annual Mean	<170		
					Annual Max	<170		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	190	2900
					Annual Mean	<190		
					Annual Max	<190		
	1,3,5-Trichlorobenzene	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	44	690
					Annual Mean	<44		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	wet weight				Annual Max	<44		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	50	770
					Annual Mean	<50		
					Annual Max	<50		
	1,3,5-Trimethylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	420	2600
					Annual Mean	<420		
					Annual Max	<420		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	450	2900
					Annual Mean	<450		
					Annual Max	<450		
	1,3,5-Trimethylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	110	690
					Annual Mean	<110		
					Annual Max	<110		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	120	770
					Annual Mean	<120		
					Annual Max	<120		
	1,3-Dichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	420	2600
					Annual Mean	<420		
					Annual Max	<420		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	490	2900
					Annual Mean	<490		
					Annual Max	<490		
	1,3-Dichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	110	690
					Annual Mean	<110		
					Annual Max	<110		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	130	770
					Annual Mean	<130		
					Annual Max	<130		
	1,3-Dichloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	300	2600
					Annual Mean	<300		
					Annual Max	<300		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	330	2900
					Annual Mean	<330		
					Annual Max	<330		
	1,3-Dichloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	78	690
					Annual Mean	<78		
					Annual Max	<78		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	87	770
					Annual Mean	<87		
					Annual Max	<87		
	1,4-Dichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	260	2600
					Annual Mean	<260		
					Annual Max	<260		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	290	2900
					Annual Mean	<290		
					Annual Max	<290		
	1,4-Dichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	69	690
					Annual Mean	<69		
					Annual Max	<69		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	77	770
					Annual Mean	<77		
					Annual Max	<77		
	2,2-Dichloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	650	2600
					Annual Mean	<650		
					Annual Max	<650		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	710	2900
					Annual Mean	<710		
					Annual Max	<710		
	2,2-Dichloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	170	690
					Annual Mean	<170		
					Annual Max	<170		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	190	770
					Annual Mean	<190		
					Annual Max	<190		
	2-Chlorotoluene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	270	2600
					Annual Mean	<270		
					Annual Max	<270		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	300	2900
					Annual Mean	<300		
					Annual Max	<300		
	2-Chlorotoluene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	72	690
					Annual Mean	<72		
					Annual Max	<72		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	81	770
					Annual Mean	<81		
					Annual Max	<81		
	2-Hexanone wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	600	2800
					Annual Mean	<600		
					Annual Max	<600		
		EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	670	3100

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				Dewatering Cake	Annual Mean	<670		
					Annual Max	<670		
	4-Chlorotoluene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	240	2600
					Annual Mean	<240		
					Annual Max	<240		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	270	2900
					Annual Mean	<270		
					Annual Max	<270		
	4-Chlorotoluene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	64	690
					Annual Mean	<64		
					Annual Max	<64		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	71	770
					Annual Mean	<71		
					Annual Max	<71		
	Acrolein	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	12000	53000
					Annual Mean	<12000		
					Annual Max	<12000		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	56000
					Annual Mean	<13000		
					Annual Max	<13000		
	Acrolein wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3200	14000
					Annual Mean	<3200		
					Annual Max	<3200		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3600	15000
					Annual Mean	<3600		
					Annual Max	<3600		
	Acrylonitrile	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	2700	53000
					Annual Mean	<2700		
					Annual Max	<2700		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	3000	56000
					Annual Mean	<3000		
					Annual Max	<3000		
	Acrylonitrile wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	720	14000
					Annual Mean	<720		
					Annual Max	<720		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	810	15000
					Annual Mean	<810		
					Annual Max	<810		
	Benzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	520	2900
					Annual Mean	<520		
					Annual Max	<520		
	Benzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	140	770
					Annual Mean	<140		
					Annual Max	<140		
	Bromobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	200	2600
					Annual Mean	<200		
					Annual Max	<200		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	220	2900
					Annual Mean	<220		
					Annual Max	<220		
	Bromobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	53	690
					Annual Mean	<53		
					Annual Max	<53		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	59	770
					Annual Mean	<59		
					Annual Max	<59		
	Bromochloromethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	2900
					Annual Mean	<560		
					Annual Max	<560		
	Bromochloromethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	770
					Annual Mean	<150		
					Annual Max	<150		
	Bromodichloromethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	990	2600
					Annual Mean	<990		
					Annual Max	<990		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1100	2900
					Annual Mean	<1100		
					Annual Max	<1100		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Bromodichloromethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	260	690
					Annual Mean	<260		
					Annual Max	<260		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	290	770
					Annual Mean	<290		
					Annual Max	<290		
	Bromoform	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1700	2600
					Annual Mean	<1700		
					Annual Max	<1700		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1900	2900
					Annual Mean	<1900		
					Annual Max	<1900		
	Bromoform wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	440	690
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	500	770
					Annual Mean	<500		
					Annual Max	<500		
	Bromomethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	5300
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	5600
					Annual Mean	<560		
					Annual Max	<560		
	Bromomethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	1400
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	1500
					Annual Mean	<150		
					Annual Max	<150		
	Carbon tetrachloride	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	180	2600
					Annual Mean	<180		
					Annual Max	<180		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	200	2900
					Annual Mean	<200		
					Annual Max	<200		
	Carbon tetrachloride wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	47	690
					Annual Mean	<47		
					Annual Max	<47		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	53	770
					Annual Mean	<53		
					Annual Max	<53		
	Chlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	140	2600
					Annual Mean	<140		
					Annual Max	<140		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	150	2900
					Annual Mean	<150		
					Annual Max	<150		
	Chlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	36	690
					Annual Mean	<36		
					Annual Max	<36		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	41	770
					Annual Mean	<41		
					Annual Max	<41		
	Chloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1800	5300
					Annual Mean	<1800		
					Annual Max	<1800		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1900	5600
					Annual Mean	<1900		
					Annual Max	<1900		
	Chloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	460	1400
					Annual Mean	<460		
					Annual Max	<460		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	520	1500
					Annual Mean	<520		
					Annual Max	<520		
	Chloroform	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	520	2900
					Annual Mean	<520		
					Annual Max	<520		
	Chloroform wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	140	770
					Annual Mean	<140		
					Annual Max	<140		
	Chloromethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	530	5300
					Annual Mean	<530		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Max	<530		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	5600
					Annual Mean	<560		
					Annual Max	<560		
	Chloromethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	140	1400
					Annual Mean	<140		
					Annual Max	<140		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	1500
					Annual Mean	<150		
					Annual Max	<150		
	cis-1,2-Dichloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	230	1300
					Annual Mean	<230		
					Annual Max	<230		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	250	1500
					Annual Mean	<250		
					Annual Max	<250		
	cis-1,2-Dichloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	61	350
					Annual Mean	<61		
					Annual Max	<61		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	68	390
					Annual Mean	<68		
					Annual Max	<68		
	cis-1,3-Dichloropropene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1300	3200
					Annual Mean	<1300		
					Annual Max	<1300		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1400	3500
					Annual Mean	<1400		
					Annual Max	<1400		
	cis-1,3-Dichloropropene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	330	830
					Annual Mean	<330		
					Annual Max	<330		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	370	930
					Annual Mean	<370		
					Annual Max	<370		
	Dibromochloromethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	350	2600
					Annual Mean	<350		
					Annual Max	<350		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	370	2900
					Annual Mean	<370		
					Annual Max	<370		
	Dibromochloromethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	92	690
					Annual Mean	<92		
					Annual Max	<92		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	100	770
					Annual Mean	<100		
					Annual Max	<100		
	Dibromomethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	320	2600
					Annual Mean	<320		
					Annual Max	<320		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	350	2900
					Annual Mean	<350		
					Annual Max	<350		
	Dibromomethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	83	690
					Annual Mean	<83		
					Annual Max	<83		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	93	770
					Annual Mean	<93		
					Annual Max	<93		
	Dichlorodifluoromethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	690	5300
					Annual Mean	<690		
					Annual Max	<690		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	750	5600
					Annual Mean	<750		
					Annual Max	<750		
	Dichlorodifluoromethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	180	1400
					Annual Mean	<180		
					Annual Max	<180		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	200	1500
					Annual Mean	<200		
					Annual Max	<200		
	Ethylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	360	2600
					Annual Mean	<360		
					Annual Max	<360		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	410	2900
					Annual Mean	<410		
					Annual Max	<410		
	Ethylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	94	690
					Annual Mean	<94		
					Annual Max	<94		
		EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	110	770

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				Dewatering Cake	Annual Mean	<110		
					Annual Max	<110		
	Hexachlorobutadiene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	530	2600
					Annual Mean	<530		
					Annual Max	<530		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	2900
					Annual Mean	<560		
					Annual Max	<560		
	Hexachlorobutadiene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	140	690
					Annual Mean	<140		
					Annual Max	<140		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	770
					Annual Mean	<150		
					Annual Max	<150		
	Isobutyl alcohol	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	110000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	17000	120000
					Annual Mean	<17000		
					Annual Max	<17000		
	Isobutyl alcohol wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4200	28000
					Annual Mean	<4200		
					Annual Max	<4200		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4600	31000
					Annual Mean	<4600		
					Annual Max	<4600		
	Isopropylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	310	2600
					Annual Mean	<310		
					Annual Max	<310		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	340	2900
					Annual Mean	<340		
					Annual Max	<340		
	Isopropylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	81	690
					Annual Mean	<81		
					Annual Max	<81		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	90	770
					Annual Mean	<90		
					Annual Max	<90		
	m,p-Xylenes	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	840	2600
					Annual Mean	<840		
					Annual Max	<840		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	900	2900
					Annual Mean	<900		
					Annual Max	<900		
	m,p-Xylenes wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	220	690
					Annual Mean	<220		
					Annual Max	<220		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	240	770
					Annual Mean	<240		
					Annual Max	<240		
	Methyl ethyl ketone	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	8000	21000
					Annual Mean	<8000		
					Annual Max	<8000		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	8600	23000
					Annual Mean	<8600		
					Annual Max	<8600		
	Methyl ethyl ketone wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2100	5600
					Annual Mean	<2100		
					Annual Max	<2100		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2300	6200
					Annual Mean	<2300		
					Annual Max	<2300		
	Methylene Chloride	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	730	2600
					Annual Mean	<730		
					Annual Max	<730		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	790	2900
					Annual Mean	<790		
					Annual Max	<790		
	Methylene Chloride wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	190	690
					Annual Mean	<190		
					Annual Max	<190		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	210	770
					Annual Mean	<210		
					Annual Max	<210		
	MIBK	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	6500	14000
					Annual Mean	<6500		
					Annual Max	<6500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	7100	15000
					Annual Mean	<7100		
					Annual Max	<7100		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	MIBK wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	1700	3600
					Annual Mean	<1700		
					Annual Max	<1700		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	1900	4000
					Annual Mean	<1900		
					Annual Max	<1900		
	Naphthalene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1800	5300
					Annual Mean	<1800		
					Annual Max	<1800		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1900	5600
					Annual Mean	<1900		
					Annual Max	<1900		
	Naphthalene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	460	1400
					Annual Mean	<460		
					Annual Max	<460		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	520	1500
					Annual Mean	<520		
					Annual Max	<520		
	n-Butylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	840	2600
					Annual Mean	<840		
					Annual Max	<840		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	940	2900
					Annual Mean	<940		
					Annual Max	<940		
	n-Butylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	220	690
					Annual Mean	<220		
					Annual Max	<220		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	250	770
					Annual Mean	<250		
					Annual Max	<250		
	n-Propylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1200	2600
					Annual Mean	<1200		
					Annual Max	<1200		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1300	2900
					Annual Mean	<1300		
					Annual Max	<1300		
	n-Propylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	310	690
					Annual Mean	<310		
					Annual Max	<310		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	340	770
					Annual Mean	<340		
					Annual Max	<340		
	o-Xylene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	370	1300
					Annual Mean	<370		
					Annual Max	<370		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	410	1500
					Annual Mean	<410		
					Annual Max	<410		
	o-Xylene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	97	350
					Annual Mean	<97		
					Annual Max	<97		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	110	390
					Annual Mean	<110		
					Annual Max	<110		
	sec-Butylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	420	2600
					Annual Mean	<420		
					Annual Max	<420		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	450	2900
					Annual Mean	<450		
					Annual Max	<450		
	sec-Butylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	110	690
					Annual Mean	<110		
					Annual Max	<110		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	120	770
					Annual Mean	<120		
					Annual Max	<120		
	Styrene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1500	3200
					Annual Mean	<1500		
					Annual Max	<1500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1600	3500
					Annual Mean	<1600		
					Annual Max	<1600		
	Styrene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	380	830
					Annual Mean	<380		
					Annual Max	<380		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	420	930
					Annual Mean	<420		
					Annual Max	<420		
	tert-Butylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	300	2600
					Annual Mean	<300		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Max	<300		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	330	2900
					Annual Mean	<330		
					Annual Max	<330		
	tert-Butylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	78	690
					Annual Mean	<78		
					Annual Max	<78		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	87	770
					Annual Mean	<87		
					Annual Max	<87		
	Tetrachloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	290	2600
					Annual Mean	<290		
					Annual Max	<290		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	310	2900
					Annual Mean	<310		
					Annual Max	<310		
	Tetrachloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	75	690
					Annual Mean	<75		
					Annual Max	<75		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	84	770
					Annual Mean	<84		
					Annual Max	<84		
	Toluene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	420	2600
					Annual Mean	<420		
					Annual Max	<420		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	450	2900
					Annual Mean	<450		
					Annual Max	<450		
	Toluene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	110	690
					Annual Mean	<110		
					Annual Max	<110		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	120	770
					Annual Mean	<120		
					Annual Max	<120		
	trans-1,2-Dichloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	460	1300
					Annual Mean	<460		
					Annual Max	<460		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	520	1500
					Annual Mean	<520		
					Annual Max	<520		
	trans-1,2-Dichloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	120	350
					Annual Mean	<120		
					Annual Max	<120		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	140	390
					Annual Mean	<140		
					Annual Max	<140		
	trans-1,3-Dichloropropene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1900	4200
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	2100	4500
					Annual Mean	<2100		
					Annual Max	<2100		
	trans-1,3-Dichloropropene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	500	1100
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	560	1200
					Annual Mean	<560		
					Annual Max	<560		
	Trichloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	240	2600
					Annual Mean	<240		
					Annual Max	<240		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	270	2900
					Annual Mean	<270		
					Annual Max	<270		
	Trichloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	64	690
					Annual Mean	<64		
					Annual Max	<64		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	71	770
					Annual Mean	<71		
					Annual Max	<71		
	Trichlorofluoromethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	530	5300
					Annual Mean	<530		
					Annual Max	<530		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	5600
					Annual Mean	<560		
					Annual Max	<560		
	Trichlorofluoromethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	140	1400
					Annual Mean	<140		
					Annual Max	<140		
		EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	150	1500

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				Dewatering Cake	Annual Mean	<150		
					Annual Max	<150		
	Vinyl chloride	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	290	5300
					Annual Mean	<290		
					Annual Max	<290		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	310	5600
					Annual Mean	<310		
					Annual Max	<310		
	Vinyl chloride wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	75	1400
					Annual Mean	<75		
					Annual Max	<75		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	84	1500
					Annual Mean	<84		
					Annual Max	<84		
Semi-Volatile Organic Compounds	1,2,4-Trichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	7200	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	6300	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	1,2,4-Trichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000
					03/07/2023	ND	1800	10000
					04/04/2023	ND	2900	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<4000		
					Annual Max	<4000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000
					03/07/2023	ND	1800	10000
					04/04/2023	ND	6600	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6600		
					Annual Max	<6600		
	1,2-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	95000
					03/07/2023	ND	6000	40000
					04/04/2023	ND	11000	71000
					05/02/2023	ND	5800	38000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	94000
					03/07/2023	ND	5200	35000
					04/04/2023	ND	23000	150000
					05/02/2023	ND	4900	33000
					Annual Mean	<23000		
					Annual Max	<23000		
	1,2-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3800	25000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	2700	18000
					05/02/2023	ND	1400	9100
					Annual Mean	<3800		
					Annual Max	<3800		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3800	25000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	6400	42000
					05/02/2023	ND	1300	8800
					Annual Mean	<6400		
					Annual Max	<6400		
	1,3-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	27000	50000
					03/07/2023	ND	5600	40000
					04/04/2023	ND	20000	36000
					05/02/2023	ND	11000	19000
					Annual Mean	<27000		
					Annual Max	<27000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	27000	45000
					03/07/2023	ND	4900	35000
					04/04/2023	ND	44000	77000
					05/02/2023	ND	9500	17000
					Annual Mean	<44000		
					Annual Max	<44000		
	1,3-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	7100	13000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	5100	9000
					05/02/2023	ND	2600	4500
					Annual Mean	<7100		
					Annual Max	<7100		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	7100	12000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	12000	21000
					05/02/2023	ND	2500	4400
					Annual Mean	<12000		
					Annual Max	<12000		
	1,4-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	27000	50000
					03/07/2023	ND	5600	40000
					04/04/2023	ND	20000	36000
					05/02/2023	ND	10000	19000
					Annual Mean	<27000		
					Annual Max	<27000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	26000	45000
					03/07/2023	ND	4900	35000
					04/04/2023	ND	44000	77000
					05/02/2023	ND	9500	17000
					Annual Mean	<44000		
					Annual Max	<44000		
	1,4-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	7000	13000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	5100	9000
					05/02/2023	ND	2500	4500
					Annual Mean	<7000		
					Annual Max	<7000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	7000	12000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	12000	21000
					05/02/2023	ND	2500	4400
					Annual Mean	<12000		
					Annual Max	<12000		
	2,4,5-Trichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	5600	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	4900	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	2,4,5-Trichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	2900	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4000		
					Annual Max	<4000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	6700	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6700		
					Annual Max	<6700		
	2,4,6-Trichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	19000	50000
					03/07/2023	ND	6400	40000
					04/04/2023	ND	14000	36000
					05/02/2023	ND	7400	19000
					Annual Mean	<19000		
					Annual Max	<19000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	18000	45000
					03/07/2023	ND	5600	35000
					04/04/2023	ND	30000	77000
					05/02/2023	ND	6500	17000
					Annual Mean	<30000		
					Annual Max	<30000		
	2,4,6-Trichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	5000	13000
					03/07/2023	ND	1600	10000
					04/04/2023	ND	3600	9000
					05/02/2023	ND	1800	4500
					Annual Mean	<5000		
					Annual Max	<5000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4900	12000
					03/07/2023	ND	1600	10000
					04/04/2023	ND	8300	21000
					05/02/2023	ND	1700	4400
					Annual Mean	<8300		
					Annual Max	<8300		
	2,4-Dichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	8400	40000

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	7300	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	2,4-Dichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000
					03/07/2023	ND	2100	10000
					04/04/2023	ND	2800	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3900		
					Annual Max	<3900		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000
					03/07/2023	ND	2100	10000
					04/04/2023	ND	6600	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6600		
					Annual Max	<6600		
	2,4-Dimethylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	03/07/2023	ND	3700	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<11000		
					Annual Max	<11000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	03/07/2023	ND	3200	35000
					04/04/2023	ND	23000	77000
					05/02/2023	ND	4900	17000
					Annual Mean	<23000		
					Annual Max	<23000		
	2,4-Dimethylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	03/07/2023	ND	910	10000
					04/04/2023	ND	2700	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<2700		
					Annual Max	<2700		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	03/07/2023	ND	910	10000
					04/04/2023	ND	6300	21000
					05/02/2023	ND	1300	4400
					Annual Mean	<6300		
					Annual Max	<6300		
	2,4-Dinitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	130000	500000
					03/07/2023	ND	130000	160000
					04/04/2023	ND	99000	360000
					05/02/2023	ND	50000	190000
					Annual Mean	<130000		
					Annual Max	<130000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	130000	450000
					03/07/2023	ND	110000	140000
					04/04/2023	ND	210000	770000
					05/02/2023	ND	46000	170000
					Annual Mean	<210000		
					Annual Max	<210000		
	2,4-Dinitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	34000	130000
					03/07/2023	ND	32000	40000
					04/04/2023	ND	25000	90000
					05/02/2023	ND	12000	45000
					Annual Mean	<34000		
					Annual Max	<34000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	34000	120000
					03/07/2023	ND	32000	40000
					04/04/2023	ND	57000	210000
					05/02/2023	ND	12000	44000
					Annual Mean	<57000		
					Annual Max	<57000		
	2,4-Dinitrotoluene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1400	3800
					03/07/2023	ND	8400	40000
					05/02/2023	ND	7000	19000
					Annual Mean	<8400		
					Annual Max	<8400		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1300	3700
					03/07/2023	ND	7300	35000
					05/02/2023	ND	6100	17000
					Annual Mean	<7300		
					Annual Max	<7300		
	2,4-Dinitrotoluene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	360	1000
					03/07/2023	ND	2100	10000
					05/02/2023	ND	1700	4500
					Annual Mean	<2100		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Max	<2100		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	360	1000
					03/07/2023	ND	2100	10000
					05/02/2023	ND	1600	4400
					Annual Mean	<2100		
					Annual Max	<2100		
	2,6-Dinitrotoluene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	ND	4800	40000
					04/04/2023	ND	13000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<17000		
					Annual Max	<17000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	27000	77000
					05/02/2023	ND	6100	17000
					Annual Mean	<27000		
					Annual Max	<27000		
	2,6-Dinitrotoluene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4500	13000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	3200	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4500		
					Annual Max	<4500		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	7500	21000
					05/02/2023	ND	1600	4400
					Annual Mean	<7500		
					Annual Max	<7500		
	2-Chloronaphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	ND	4400	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<17000		
					Annual Max	<17000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	3800	35000
					04/04/2023	ND	27000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<27000		
					Annual Max	<27000		
	2-Chloronaphthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4400	13000
					03/07/2023	ND	1100	10000
					04/04/2023	ND	3100	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4400		
					Annual Max	<4400		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4300	12000
					03/07/2023	ND	1100	10000
					04/04/2023	ND	7300	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7300		
					Annual Max	<7300		
	2-Chlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	26000	50000
					03/07/2023	ND	8000	40000
					04/04/2023	ND	19000	36000
					05/02/2023	ND	10000	19000
					Annual Mean	<26000		
					Annual Max	<26000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	25000	45000
					03/07/2023	ND	7000	35000
					04/04/2023	ND	40000	77000
					05/02/2023	ND	9100	17000
					Annual Mean	<40000		
					Annual Max	<40000		
	2-Chlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	6800	13000
					03/07/2023	ND	2000	10000
					04/04/2023	ND	4900	9000
					05/02/2023	ND	2500	4500
					Annual Mean	<6800		
					Annual Max	<6800		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	6800	12000
					03/07/2023	ND	2000	10000
					04/04/2023	ND	11000	21000
					05/02/2023	ND	2400	4400
					Annual Mean	<11000		
					Annual Max	<11000		
	2-Methylnaphthalen	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	13000	95000
					03/07/2023	ND	4400	40000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	e				04/04/2023	ND	9900	71000
					05/02/2023	ND	5400	38000
					Annual Mean	<13000		
					Annual Max	<13000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	94000
					03/07/2023	ND	3800	35000
					04/04/2023	ND	21000	150000
					05/02/2023	ND	4600	33000
					Annual Mean	<21000		
					Annual Max	<21000		
	2-Methylnaphthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3500	25000
					03/07/2023	ND	1100	10000
					04/04/2023	ND	2500	18000
					05/02/2023	ND	1300	9100
					Annual Mean	<3500		
					Annual Max	<3500		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3500	25000
					03/07/2023	ND	1100	10000
					04/04/2023	ND	5800	42000
					05/02/2023	ND	1200	8800
					Annual Mean	<5800		
					Annual Max	<5800		
	2-Methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	7600	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	6600	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	2-Methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	2800	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3900		
					Annual Max	<3900		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	6500	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6500		
					Annual Max	<6500		
	2-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14000	50000
					03/07/2023	ND	5200	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<14000		
					Annual Max	<14000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	45000
					03/07/2023	ND	4500	35000
					04/04/2023	ND	23000	77000
					05/02/2023	ND	4900	17000
					Annual Mean	<23000		
					Annual Max	<23000		
	2-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3700	13000
					03/07/2023	ND	1300	10000
					04/04/2023	ND	2700	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3700		
					Annual Max	<3700		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3700	12000
					03/07/2023	ND	1300	10000
					04/04/2023	ND	6300	21000
					05/02/2023	ND	1300	4400
					Annual Mean	<6300		
					Annual Max	<6300		
	2-Nitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	35000	50000
					03/07/2023	ND	8800	40000
					04/04/2023	ND	26000	36000
					05/02/2023	ND	14000	19000
					Annual Mean	<35000		
					Annual Max	<35000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	35000	45000
					03/07/2023	ND	7700	35000
					04/04/2023	ND	58000	77000
					05/02/2023	ND	13000	17000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Mean	<58000		
					Annual Max	<58000		
	2-Nitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	9300	13000
					03/07/2023	ND	2200	10000
					04/04/2023	ND	6700	9000
					05/02/2023	ND	3400	4500
					Annual Mean	<9300		
					Annual Max	<9300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	9300	12000
					03/07/2023	ND	2200	10000
					04/04/2023	ND	16000	21000
					05/02/2023	ND	3300	4400
					Annual Mean	<16000		
					Annual Max	<16000		
	3&4-Methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14000	95000
					03/07/2023	ND	17000	80000
					04/04/2023	ND	11000	71000
					05/02/2023	ND	5800	38000
					Annual Mean	<17000		
					Annual Max	<17000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	94000
					03/07/2023	ND	15000	70000
					04/04/2023	ND	23000	150000
					05/02/2023	22000 DNQ	4900	33000
					Annual Mean	18000 DNQ		
					Annual Max	22000 DNQ		
	3&4-Methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3700	25000
					03/07/2023	ND	4300	20000
					04/04/2023	ND	2700	18000
					05/02/2023	ND	1400	9100
					Annual Mean	<4300		
					Annual Max	<4300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3700	25000
					03/07/2023	ND	4300	20000
					04/04/2023	ND	6200	42000
					05/02/2023	5900 DNQ	1300	8800
					Annual Mean	5000 DNQ		
					Annual Max	5900 DNQ		
	3,3-Dichlorobenzidine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	13000	50000
					04/04/2023	ND	9900	36000
					05/02/2023	ND	5000	19000
					Annual Mean	<13000		
					Annual Max	<13000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	45000
					04/04/2023	ND	21000	77000
					05/02/2023	ND	4600	17000
					Annual Mean	<21000		
					Annual Max	<21000		
	3,3-Dichlorobenzidine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3400	13000
					04/04/2023	ND	2500	9000
					05/02/2023	ND	1200	4500
					Annual Mean	<3400		
					Annual Max	<3400		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3400	12000
					04/04/2023	ND	5800	21000
					05/02/2023	ND	1200	4400
					Annual Mean	<5800		
					Annual Max	<5800		
	3-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	9600	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	8400	35000
					04/04/2023	ND	25000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<25000		
					Annual Max	<25000		
	3-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000
					03/07/2023	ND	2400	10000
					04/04/2023	ND	2900	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4100		
					Annual Max	<4100		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000
					03/07/2023	ND	2400	10000
					04/04/2023	ND	6800	21000
					05/02/2023	ND	1400	4400

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Mean	<6800		
					Annual Max	<6800		
	4,6-Dinitro-2-methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	99000	500000
					03/07/2023	ND	76000	200000
					04/04/2023	ND	75000	360000
					05/02/2023	ND	39000	190000
					Annual Mean	<99000		
					Annual Max	<99000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	97000	450000
					03/07/2023	ND	66000	170000
					04/04/2023	ND	160000	770000
					05/02/2023	ND	35000	170000
					Annual Mean	<160000		
					Annual Max	<160000		
	4,6-Dinitro-2-methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	26000	130000
					03/07/2023	ND	19000	50000
					04/04/2023	ND	19000	90000
					05/02/2023	ND	9500	45000
					Annual Mean	<26000		
					Annual Max	<26000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	26000	120000
					03/07/2023	ND	19000	50000
					04/04/2023	ND	44000	210000
					05/02/2023	ND	9200	44000
					Annual Mean	<44000		
					Annual Max	<44000		
	4-Bromophenyl phenyl ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	ND	4800	40000
					04/04/2023	ND	13000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<17000		
					Annual Max	<17000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	27000	77000
					05/02/2023	ND	6100	17000
					Annual Mean	<27000		
					Annual Max	<27000		
	4-Bromophenyl phenyl ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4500	13000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	3200	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4500		
					Annual Max	<4500		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	7500	21000
					05/02/2023	ND	1600	4400
					Annual Mean	<7500		
					Annual Max	<7500		
	4-Chloro-3-methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14000	50000
					03/07/2023	ND	6800	40000
					04/04/2023	ND	10000	36000
					05/02/2023	ND	5400	19000
					Annual Mean	<14000		
					Annual Max	<14000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	45000
					03/07/2023	ND	5900	35000
					04/04/2023	ND	22000	77000
					05/02/2023	ND	4900	17000
					Annual Mean	<22000		
					Annual Max	<22000		
	4-Chloro-3-methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3700	13000
					03/07/2023	ND	1700	10000
					04/04/2023	ND	2600	9000
					05/02/2023	ND	1300	4500
					Annual Mean	<3700		
					Annual Max	<3700		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3600	12000
					03/07/2023	ND	1700	10000
					04/04/2023	ND	6100	21000
					05/02/2023	ND	1300	4400
					Annual Mean	<6100		
					Annual Max	<6100		
	4-Chloroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	9900	95000
					03/07/2023	ND	5600	40000
					04/04/2023	ND	7100	71000
					05/02/2023	ND	3800	38000
					Annual Mean	<9900		
					Annual Max	<9900		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	9400	94000
					03/07/2023	ND	4900	35000
					04/04/2023	ND	16000	150000
					05/02/2023	ND	3400	33000
					Annual Mean	<16000		
					Annual Max	<16000		
	4-Chloroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2600	25000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	1800	18000
					05/02/2023	ND	930	9100
					Annual Mean	<2600		
					Annual Max	<2600		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2500	25000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	4300	42000
					05/02/2023	ND	900	8800
					Annual Mean	<4300		
					Annual Max	<4300		
	4-Chlorophenyl phenyl ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	5600	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	4900	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	4-Chlorophenyl phenyl ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	2900	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<4000		
					Annual Max	<4000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	6700	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6700		
					Annual Max	<6700		
	4-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	8400	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	7300	35000
					04/04/2023	ND	25000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<25000		
					Annual Max	<25000		
	4-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000
					03/07/2023	ND	2100	10000
					04/04/2023	ND	3000	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4100		
					Annual Max	<4100		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000
					03/07/2023	ND	2100	10000
					04/04/2023	ND	6900	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6900		
					Annual Max	<6900		
	4-Nitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	69000	95000
					03/07/2023	ND	13000	40000
					04/04/2023	ND	51000	71000
					05/02/2023	ND	28000	38000
					Annual Mean	<69000		
					Annual Max	<69000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	67000	94000
					03/07/2023	ND	12000	35000
					04/04/2023	ND	110000	150000
					05/02/2023	ND	24000	33000
					Annual Mean	<110000		
					Annual Max	<110000		
	4-Nitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	18000	25000
					03/07/2023	ND	3300	10000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/04/2023	ND	13000	18000
					05/02/2023	ND	6700	9100
					Annual Mean	<18000		
					Annual Max	<18000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	18000	25000
					03/07/2023	ND	3400	10000
					04/04/2023	ND	31000	42000
					05/02/2023	ND	6400	8800
					Annual Mean	<31000		
					Annual Max	<31000		
	Acenaphthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	4400	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	45000
					03/07/2023	ND	3800	35000
					04/04/2023	ND	23000	77000
					05/02/2023	ND	4900	17000
					Annual Mean	<23000		
					Annual Max	<23000		
	Acenaphthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3800	13000
					03/07/2023	ND	1100	10000
					04/04/2023	ND	2700	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3800		
					Annual Max	<3800		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3800	12000
					03/07/2023	ND	1100	10000
					04/04/2023	ND	6300	21000
					05/02/2023	ND	1300	4400
					Annual Mean	<6300		
					Annual Max	<6300		
	Acenaphthylene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	7600	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	6600	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	Acenaphthylene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	2900	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4000		
					Annual Max	<4000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	6700	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6700		
					Annual Max	<6700		
	Aniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	03/07/2023	ND	9200	40000
					Annual Mean	<9200		
					Annual Max	<9200		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	03/07/2023	ND	8000	35000
					Annual Mean	<8000		
					Annual Max	<8000		
	Aniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	03/07/2023	ND	2300	10000
					Annual Mean	<2300		
					Annual Max	<2300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	03/07/2023	ND	2300	10000
					Annual Mean	<2300		
					Annual Max	<2300		
	Anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	4000	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	3500	35000
					04/04/2023	ND	25000	77000
					05/02/2023	ND	5700	17000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Mean	<25000		
					Annual Max	<25000		
	Anthracene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000
					03/07/2023	ND	1000	10000
					04/04/2023	ND	3000	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4100		
					Annual Max	<4100		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000
					03/07/2023	ND	1000	10000
					04/04/2023	ND	6900	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<6900		
					Annual Max	<6900		
	Azobenzene/1,2-Diphenylhydrazine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	28000	50000
					03/07/2023	ND	12000	40000
					04/04/2023	ND	21000	36000
					05/02/2023	ND	11000	19000
					Annual Mean	<28000		
					Annual Max	<28000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	27000	45000
					03/07/2023	ND	10000	35000
					04/04/2023	ND	44000	77000
					05/02/2023	ND	9900	17000
					Annual Mean	<44000		
					Annual Max	<44000		
	Azobenzene/1,2-Diphenylhydrazine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	7400	13000
					03/07/2023	ND	2900	10000
					04/04/2023	ND	5300	9000
					05/02/2023	ND	2700	4500
					Annual Mean	<7400		
					Annual Max	<7400		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	7300	12000
					03/07/2023	ND	2900	10000
					04/04/2023	ND	12000	21000
					05/02/2023	ND	2600	4400
					Annual Mean	<12000		
					Annual Max	<12000		
	Benz(a)anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	3700	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	3200	35000
					04/04/2023	ND	26000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<26000		
					Annual Max	<26000		
	Benz(a)anthracene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000
					03/07/2023	ND	910	10000
					04/04/2023	ND	3100	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4300		
					Annual Max	<4300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4200	12000
					03/07/2023	ND	910	10000
					04/04/2023	ND	7200	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7200		
					Annual Max	<7200		
	Benzidine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	05/02/2023	ND	18000	110000
					Annual Mean	<18000		
					Annual Max	<18000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	05/02/2023	ND	16000	99000
					Annual Mean	<16000		
					Annual Max	<16000		
	Benzidine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	05/02/2023	ND	4300	27000
					Annual Mean	<4300		
					Annual Max	<4300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	05/02/2023	ND	4200	26000
					Annual Mean	<4200		
					Annual Max	<4200		
	Benzo(a)pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	6000	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<16000		
					Annual Max	<16000		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	5200	35000
					04/04/2023	ND	27000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<27000		
					Annual Max	<27000		
	Benzo(a)pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	3100	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4300		
					Annual Max	<4300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4300	12000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	7300	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7300		
					Annual Max	<7300		
	Benzo(b)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	6400	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	5600	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	Benzo(b)fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000
					03/07/2023	ND	1600	10000
					04/04/2023	ND	2800	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3900		
					Annual Max	<3900		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000
					03/07/2023	ND	1600	10000
					04/04/2023	ND	6600	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6600		
					Annual Max	<6600		
	Benzo(g,h,i)perylene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	6800	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	5900	35000
					04/04/2023	ND	26000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<26000		
					Annual Max	<26000		
	Benzo(g,h,i)perylene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000
					03/07/2023	ND	1700	10000
					04/04/2023	ND	3100	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4300		
					Annual Max	<4300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4300	12000
					03/07/2023	ND	1700	10000
					04/04/2023	ND	7200	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7200		
					Annual Max	<7200		
	Benzo(k)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	ND	7600	40000
					04/04/2023	ND	13000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<17000		
					Annual Max	<17000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	17000	45000
					03/07/2023	ND	6600	35000
					04/04/2023	ND	28000	77000
					05/02/2023	ND	6100	17000
					Annual Mean	<28000		
					Annual Max	<28000		
	Benzo(k)fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4500	13000
					03/07/2023	ND	1900	10000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/04/2023	ND	3300	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4500		
					Annual Max	<4500		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4500	12000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	7600	21000
					05/02/2023	ND	1600	4400
					Annual Mean	<7600		
					Annual Max	<7600		
	Benzoic acid	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	53000	190000
					03/07/2023	ND	130000	200000
					04/04/2023	ND	40000	140000
					05/02/2023	ND	21000	74000
					Annual Mean	<130000		
					Annual Max	<130000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	52000	190000
					03/07/2023	ND	110000	170000
					04/04/2023	ND	84000	310000
					05/02/2023	ND	19000	68000
					Annual Mean	<110000		
					Annual Max	<110000		
	Benzoic acid wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	14000	50000
					03/07/2023	ND	32000	50000
					04/04/2023	ND	10000	36000
					05/02/2023	ND	5100	18000
					Annual Mean	<32000		
					Annual Max	<32000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	14000	50000
					03/07/2023	ND	32000	50000
					04/04/2023	ND	23000	84000
					05/02/2023	ND	4900	18000
					Annual Mean	<32000		
					Annual Max	<32000		
	Benzyl alcohol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	6800	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	45000
					03/07/2023	ND	5900	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	Benzyl alcohol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000
					03/07/2023	ND	1700	10000
					04/04/2023	ND	2800	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3900		
					Annual Max	<3900		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3800	12000
					03/07/2023	ND	1700	10000
					04/04/2023	ND	6500	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6500		
					Annual Max	<6500		
	Bis(2-chloroethoxy)methane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14000	50000
					03/07/2023	ND	4800	40000
					04/04/2023	ND	10000	36000
					05/02/2023	ND	5400	19000
					Annual Mean	<14000		
					Annual Max	<14000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	45000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	22000	77000
					05/02/2023	ND	4900	17000
					Annual Mean	<22000		
					Annual Max	<22000		
	Bis(2-chloroethoxy)methane wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3600	13000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	2600	9000
					05/02/2023	ND	1300	4500
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3600	12000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	6100	21000
					05/02/2023	ND	1300	4400

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Mean	<6100		
					Annual Max	<6100		
	Bis(2-chloroethyl)ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	8000	200000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	7000	170000
					04/04/2023	ND	26000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<26000		
					Annual Max	<26000		
	Bis(2-chloroethyl)ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000
					03/07/2023	ND	2000	50000
					04/04/2023	ND	3100	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4300		
					Annual Max	<4300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4300	12000
					03/07/2023	ND	2000	50000
					04/04/2023	ND	7200	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7200		
					Annual Max	<7200		
	Bis(2-chloroisopropyl)ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	4800	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	45000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	23000	77000
					05/02/2023	ND	4900	17000
					Annual Mean	<23000		
					Annual Max	<23000		
	Bis(2-chloroisopropyl)ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3800	13000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	2800	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3800		
					Annual Max	<3800		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3800	12000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	6400	21000
					05/02/2023	ND	1300	4400
					Annual Mean	<6400		
					Annual Max	<6400		
	Bis(2-ethylhexyl)phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	38000 DNQ	20000	40000
					04/04/2023	31000 DNQ	13000	36000
					05/02/2023	33000	6600	19000
					Annual Mean	30000 DNQ		
					Annual Max	33000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	17000	45000
					03/07/2023	33000 DNQ	17000	35000
					04/04/2023	ND	28000	77000
					05/02/2023	31000	6100	17000
					Annual Mean	27000 DNQ		
					Annual Max	31000		
	Bis(2-ethylhexyl)phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4500	13000
					03/07/2023	9400 DNQ	5000	10000
					04/04/2023	7900 DNQ	3300	9000
					05/02/2023	7900	1600	4500
					Annual Mean	7400 DNQ		
					Annual Max	7900		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4500	12000
					03/07/2023	9500 DNQ	5000	10000
					04/04/2023	ND	7600	21000
					05/02/2023	8100	1600	4400
					Annual Mean	7400 DNQ		
					Annual Max	8100		
	Butyl benzyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	18000	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<18000		
					Annual Max	<18000		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	15000	35000
					04/04/2023	ND	26000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<26000		
					Annual Max	<26000		
	Butyl benzyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4200	13000
					03/07/2023	ND	4400	10000
					04/04/2023	ND	3000	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4400		
					Annual Max	<4400		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000
					03/07/2023	ND	4400	10000
					04/04/2023	ND	7000	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7000		
					Annual Max	<7000		
	Chrysene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	ND	5200	40000
					04/04/2023	ND	13000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<17000		
					Annual Max	<17000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	4900	35000
					04/04/2023	ND	27000	77000
					05/02/2023	ND	6100	17000
					Annual Mean	<27000		
					Annual Max	<27000		
	Chrysene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4400	13000
					03/07/2023	ND	1300	10000
					04/04/2023	ND	3200	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4400		
					Annual Max	<4400		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	7400	21000
					05/02/2023	ND	1600	4400
					Annual Mean	<7400		
					Annual Max	<7400		
	Dibenz(a,h)anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	46000	50000
					03/07/2023	ND	8400	40000
					04/04/2023	ND	34000	36000
					05/02/2023	ND	18000	19000
					Annual Mean	<46000		
					Annual Max	<46000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	45000	45000
					03/07/2023	ND	7300	35000
					04/04/2023	ND	73000	77000
					05/02/2023	ND	16000	17000
					Annual Mean	<73000		
					Annual Max	<73000		
	Dibenz(a,h)anthracene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	12000	13000
					03/07/2023	ND	2100	10000
					04/04/2023	ND	8600	9000
					05/02/2023	ND	4300	4500
					Annual Mean	<12000		
					Annual Max	<12000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	12000	12000
					03/07/2023	ND	2100	10000
					04/04/2023	ND	20000	21000
					05/02/2023	ND	4200	4400
					Annual Mean	<20000		
					Annual Max	<20000		
	Dibenzofuran	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	7600	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	6600	35000
					04/04/2023	ND	25000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<25000		
					Annual Max	<25000		
	Dibenzofuran wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000
					03/07/2023	ND	1900	10000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/04/2023	ND	3000	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4100		
					Annual Max	<4100		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	6900	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6900		
					Annual Max	<6900		
	Diethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	4800	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	Diethyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	2800	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3900		
					Annual Max	<3900		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	6600	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6600		
					Annual Max	<6600		
	Dimethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	5200	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	45000
					03/07/2023	ND	4500	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	Dimethyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000
					03/07/2023	ND	1300	10000
					04/04/2023	ND	2800	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3900		
					Annual Max	<3900		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3800	12000
					03/07/2023	ND	1300	10000
					04/04/2023	ND	6500	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6500		
					Annual Max	<6500		
	Di-n-butyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	6000	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	5200	35000
					04/04/2023	ND	26000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<26000		
					Annual Max	<26000		
	Di-n-butyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	3100	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4300		
					Annual Max	<4300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4200	12000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	7100	21000
					05/02/2023	ND	1500	4400

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Mean	<7100		
					Annual Max	<7100		
	Di-n-octyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	29000	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<29000		
					Annual Max	<29000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	25000	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<25000		
					Annual Max	<25000		
	Di-n-octyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000
					03/07/2023	ND	7200	10000
					04/04/2023	ND	2900	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<7200		
					Annual Max	<7200		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000
					03/07/2023	ND	7200	10000
					04/04/2023	ND	6600	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<7200		
					Annual Max	<7200		
	Fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	4800	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	25000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<25000		
					Annual Max	<25000		
	Fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	2900	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4100		
					Annual Max	<4100		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	6800	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6800		
					Annual Max	<6800		
	Fluorene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	5200	40000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	4500	35000
					04/04/2023	ND	25000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<25000		
					Annual Max	<25000		
	Fluorene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000
					03/07/2023	ND	1300	10000
					04/04/2023	ND	3000	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4100		
					Annual Max	<4100		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000
					03/07/2023	ND	1300	10000
					04/04/2023	ND	6900	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<6900		
					Annual Max	<6900		
	Hexachlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1100	3800
					03/07/2023	ND	7200	40000
					04/04/2023	ND	10000	36000
					05/02/2023	ND	5400	19000
					Annual Mean	<10000		
					Annual Max	<10000		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1100	3700
					03/07/2023	ND	6300	35000
					05/02/2023	ND	4900	17000
					Annual Mean	<6300		
					Annual Max	<6300		
	Hexachlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	290	1000
					03/07/2023	ND	1800	10000
					04/04/2023	ND	2600	9000
					05/02/2023	ND	1300	4500
					Annual Mean	<2600		
					Annual Max	<2600		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	290	1000
					03/07/2023	ND	1800	10000
					05/02/2023	ND	1300	4400
					Annual Mean	<1800		
					Annual Max	<1800		
	Hexachlorobutadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1600	3800
					03/07/2023	ND	4000	40000
					04/04/2023	ND	15000	36000
					05/02/2023	ND	7900	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1500	3700
					03/07/2023	ND	3500	35000
					04/04/2023	ND	31000	77000
					05/02/2023	ND	6800	17000
					Annual Mean	<31000		
					Annual Max	<31000		
	Hexachlorobutadiene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	410	1000
					03/07/2023	ND	1000	10000
					04/04/2023	ND	3700	9000
					05/02/2023	ND	1900	4500
					Annual Mean	<3700		
					Annual Max	<3700		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	410	1000
					03/07/2023	ND	1000	10000
					04/04/2023	ND	8600	21000
					05/02/2023	ND	1800	4400
					Annual Mean	<8600		
					Annual Max	<8600		
	Hexachlorocyclopentadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	27000	95000
					03/07/2023	ND	30000	120000
					04/04/2023	ND	20000	71000
					05/02/2023	ND	11000	38000
					Annual Mean	<30000		
					Annual Max	<30000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	26000	94000
					03/07/2023	ND	26000	100000
					04/04/2023	ND	44000	150000
					05/02/2023	ND	9500	33000
					Annual Mean	<44000		
					Annual Max	<44000		
	Hexachlorocyclopentadiene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	7100	25000
					03/07/2023	ND	7500	30000
					04/04/2023	ND	5100	18000
					05/02/2023	ND	2600	9100
					Annual Mean	<7500		
					Annual Max	<7500		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	7000	25000
					03/07/2023	ND	7500	30000
					04/04/2023	ND	12000	42000
					05/02/2023	ND	2500	8800
					Annual Mean	<12000		
					Annual Max	<12000		
	Hexachloroethane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	26000	95000
					03/07/2023	ND	8800	40000
					04/04/2023	ND	19000	71000
					05/02/2023	ND	10000	38000
					Annual Mean	<26000		
					Annual Max	<26000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	25000	94000
					03/07/2023	ND	7700	35000
					04/04/2023	ND	40000	150000
					05/02/2023	ND	9100	33000
					Annual Mean	<40000		
					Annual Max	<40000		
	Hexachloroethane wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	6800	25000
					03/07/2023	ND	2200	10000
					04/04/2023	ND	4900	18000
					05/02/2023	ND	2500	9100

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Mean	<6800		
					Annual Max	<6800		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	6700	25000
					03/07/2023	ND	2200	10000
					04/04/2023	ND	11000	42000
					05/02/2023	ND	2400	8800
					Annual Mean	<11000		
					Annual Max	<11000		
	Indeno(1,2,3-cd)pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	20000	50000
					03/07/2023	ND	7200	40000
					04/04/2023	ND	15000	36000
					05/02/2023	ND	7900	19000
					Annual Mean	<20000		
					Annual Max	<20000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	19000	45000
					03/07/2023	ND	6300	35000
					04/04/2023	ND	31000	77000
					05/02/2023	ND	6800	17000
					Annual Mean	<31000		
					Annual Max	<31000		
	Indeno(1,2,3-cd)pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	5200	13000
					03/07/2023	ND	1800	10000
					04/04/2023	ND	3700	9000
					05/02/2023	ND	1900	4500
					Annual Mean	<5200		
					Annual Max	<5200		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	5100	12000
					03/07/2023	ND	1800	10000
					04/04/2023	ND	8600	21000
					05/02/2023	ND	1800	4400
					Annual Mean	<8600		
					Annual Max	<8600		
	Isophorone	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	ND	5600	40000
					04/04/2023	ND	13000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<17000		
					Annual Max	<17000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	4900	35000
					04/04/2023	ND	27000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<27000		
					Annual Max	<27000		
	Isophorone wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4400	13000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	3200	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4400		
					Annual Max	<4400		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	7400	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7400		
					Annual Max	<7400		
	Naphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	95000
					03/07/2023	ND	4400	40000
					04/04/2023	ND	11000	71000
					05/02/2023	ND	6200	38000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	94000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	25000	150000
					05/02/2023	ND	5300	33000
					Annual Mean	<25000		
					Annual Max	<25000		
	Naphthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	25000
					03/07/2023	ND	1100	10000
					04/04/2023	ND	2900	18000
					05/02/2023	ND	1500	9100
					Annual Mean	<4100		
					Annual Max	<4100		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	25000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	6800	42000
					05/02/2023	ND	1400	8800
					Annual Mean	<6800		
					Annual Max	<6800		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Nitrobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	7200	160000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	6300	140000
					04/04/2023	ND	26000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<26000		
					Annual Max	<26000		
	Nitrobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000
					03/07/2023	ND	1800	40000
					04/04/2023	ND	3100	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4300		
					Annual Max	<4300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4200	12000
					03/07/2023	ND	1800	40000
					04/04/2023	ND	7200	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7200		
					Annual Max	<7200		
	N-Nitrosodimethylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	4600	15000
					03/07/2023	ND	6000	40000
					05/02/2023	ND	21000	74000
					Annual Mean	<21000		
					Annual Max	<21000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	4500	15000
					03/07/2023	ND	5200	35000
					05/02/2023	ND	20000	68000
					Annual Mean	<20000		
					Annual Max	<20000		
	N-Nitrosodimethylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	1200	4000
					03/07/2023	ND	1500	10000
					05/02/2023	ND	5200	18000
					Annual Mean	<5200		
					Annual Max	<5200		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	1200	4000
					03/07/2023	ND	1500	10000
					05/02/2023	ND	5200	18000
					Annual Mean	<5200		
					Annual Max	<5200		
	N-Nitroso-di-n-propylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14000	95000
					03/07/2023	ND	5200	40000
					04/04/2023	ND	10000	71000
					05/02/2023	ND	5400	38000
					Annual Mean	<14000		
					Annual Max	<14000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	94000
					03/07/2023	ND	4500	35000
					04/04/2023	ND	22000	150000
					05/02/2023	ND	4900	33000
					Annual Mean	<22000		
					Annual Max	<22000		
	N-Nitroso-di-n-propylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3600	25000
					03/07/2023	ND	1300	10000
					04/04/2023	ND	2600	18000
					05/02/2023	ND	1300	9100
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3600	25000
					03/07/2023	ND	1300	10000
					04/04/2023	ND	6000	42000
					05/02/2023	ND	1300	8800
					Annual Mean	<6000		
					Annual Max	<6000		
	N-Nitrosodiphenylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	7600	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	6600	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	N-Nitrosodiphenylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	2900	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4000		
					Annual Max	<4000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	6700	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6700		
					Annual Max	<6700		
	Pentachlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	05/02/2023	ND	37000	74000
					Annual Mean	<37000		
					Annual Max	<37000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	05/02/2023	ND	33000	68000
					Annual Mean	<33000		
					Annual Max	<33000		
	Pentachlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	05/02/2023	ND	9000	18000
					Annual Mean	<9000		
					Annual Max	<9000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	05/02/2023	ND	8700	18000
					Annual Mean	<8700		
					Annual Max	<8700		
	Phenanthrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	4800	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
					Annual Mean	<24000		
					Annual Max	<24000		
	Phenanthrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	2800	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<3900		
					Annual Max	<3900		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000
					03/07/2023	ND	1200	10000
					04/04/2023	ND	6600	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6600		
					Annual Max	<6600		
	Phenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	46000 DNQ	30000	95000
					03/07/2023	15000 DNQ	7600	40000
					04/04/2023	ND	23000	71000
					05/02/2023	54000	12000	38000
					Annual Mean	34000 DNQ		
					Annual Max	54000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	100000	30000	94000
					03/07/2023	ND	6600	35000
					04/04/2023	ND	47000	150000
					05/02/2023	53000	11000	33000
					Annual Mean	52000 DNQ		
					Annual Max	100000		
	Phenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	12000 DNQ	7900	25000
					03/07/2023	3800 DNQ	1900	10000
					04/04/2023	ND	5700	18000
					05/02/2023	13000	2900	9100
					Annual Mean	8600 DNQ		
					Annual Max	13000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	27000	7900	25000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	13000	42000
					05/02/2023	14000	2800	8800
					Annual Mean	14000 DNQ		
					Annual Max	27000		
	Pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	ND	6000	40000
					04/04/2023	ND	13000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<17000		
					Annual Max	<17000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	5200	35000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/04/2023	ND	27000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<27000		
					Annual Max	<27000		
	Pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4400	13000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	3200	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4400		
					Annual Max	<4400		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	7400	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7400		
					Annual Max	<7400		
	Pyridine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	46000	95000
					03/07/2023	ND	6400	40000
					04/04/2023	ND	35000	71000
					05/02/2023	ND	18000	38000
					Annual Mean	<46000		
					Annual Max	<46000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	45000	94000
					03/07/2023	5900 DNQ	5600	35000
					04/04/2023	ND	73000	150000
					05/02/2023	ND	16000	33000
					Annual Mean	35000 DNQ		
					Annual Max	5900 DNQ		
	Pyridine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	12000	25000
					03/07/2023	ND	1600	10000
					04/04/2023	ND	8800	18000
					05/02/2023	ND	4400	9100
					Annual Mean	<12000		
					Annual Max	<12000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	12000	25000
					03/07/2023	1700 DNQ	1600	10000
					04/04/2023	ND	20000	42000
					05/02/2023	ND	4300	8800
					Annual Mean	9500 DNQ		
					Annual Max	1700 DNQ		
	Total Cresols	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	95000
					03/07/2023	ND	17000	80000
					04/04/2023	ND	11000	71000
					05/02/2023	ND	5800	38000
					Annual Mean	<17000		
					Annual Max	<17000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	94000
					03/07/2023	ND	15000	70000
					04/04/2023	ND	24000	150000
					05/02/2023	22000 DNQ	5300	33000
					Annual Mean	19000 DNQ		
					Annual Max	22000 DNQ		
	Total Cresols wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	25000
					03/07/2023	ND	4300	20000
					04/04/2023	ND	2800	18000
					05/02/2023	ND	1400	9100
					Annual Mean	<4300		
					Annual Max	<4300		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	25000
					03/07/2023	ND	4300	20000
					04/04/2023	ND	6500	42000
					05/02/2023	5900 DNQ	1400	8800
					Annual Mean	5200 DNQ		
					Annual Max	5900 DNQ		
Organochlorine Pesticides	Aldrin	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	24	76
					Annual Mean	<24		
					Annual Max	<24		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	22	71
					Annual Mean	<22		
					Annual Max	<22		
	Aldrin wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	6.3	20
					Annual Mean	<6.3		
					Annual Max	<6.3		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	6.0	19
					Annual Mean	<6.0		
					Annual Max	<6.0		
	alpha-BHC	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	8.8	76
					Annual Mean	<8.8		
					Annual Max	<8.8		
		EPA 8081B	µg/kg dry	Plant 2	01/10/2023	ND	8.2	71

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				Dewatering Cake	Annual Mean	<8.2		
					Annual Max	<8.2		
	alpha-BHC wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.3	20
					Annual Mean	<2.3		
					Annual Max	<2.3		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.2	19
					Annual Mean	<2.2		
					Annual Max	<2.2		
	alpha-Chlordane wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.2	20
					Annual Mean	<2.2		
					Annual Max	<2.2		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.1	19
					Annual Mean	<2.1		
					Annual Max	<2.1		
	beta-BHC	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14	76
					Annual Mean	<14		
					Annual Max	<14		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13	71
					Annual Mean	<13		
					Annual Max	<13		
	beta-BHC wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3.6	20
					Annual Mean	<3.6		
					Annual Max	<3.6		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3.4	19
					Annual Mean	<3.4		
					Annual Max	<3.4		
	Chlordane	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	61	380
					Annual Mean	<61		
					Annual Max	<61		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	56	350
					Annual Mean	<56		
					Annual Max	<56		
	Chlordane wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	16	99
					Annual Mean	<16		
					Annual Max	<16		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	15	94
					Annual Mean	<15		
					Annual Max	<15		
	delta-BHC	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14	76
					Annual Mean	<14		
					Annual Max	<14		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13	71
					Annual Mean	<13		
					Annual Max	<13		
	delta-BHC wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3.7	20
					Annual Mean	<3.7		
					Annual Max	<3.7		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3.5	19
					Annual Mean	<3.5		
					Annual Max	<3.5		
	Dieldrin	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	8.4	76
					Annual Mean	<8.4		
					Annual Max	<8.4		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	7.9	71
					Annual Mean	<7.9		
					Annual Max	<7.9		
	Dieldrin wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.2	20
					Annual Mean	<2.2		
					Annual Max	<2.2		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.1	19
					Annual Mean	<2.1		
					Annual Max	<2.1		
	Endosulfan 1	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16	76
					Annual Mean	<16		
					Annual Max	<16		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15	71
					Annual Mean	<15		
					Annual Max	<15		
	Endosulfan 1 wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4.2	20
					Annual Mean	<4.2		
					Annual Max	<4.2		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4.0	19
					Annual Mean	<4.0		
					Annual Max	<4.0		
	Endosulfan 2	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	73 DNQ	8.4	76
					Annual Mean	73 DNQ		
					Annual Max	73 DNQ		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	7.9	71
					Annual Mean	<7.9		
					Annual Max	<7.9		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Endosulfan 2 wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	19 DNQ	2.2	20
					Annual Mean	19 DNQ		
					Annual Max	19 DNQ		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.1	19
					Annual Mean	<2.1		
					Annual Max	<2.1		
	Endosulfan Sulfate	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	9.5	76
					Annual Mean	<9.5		
					Annual Max	<9.5		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	9.0	71
					Annual Mean	<9.0		
					Annual Max	<9.0		
	Endosulfan Sulfate wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.5	20
					Annual Mean	<2.5		
					Annual Max	<2.5		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.4	19
					Annual Mean	<2.4		
					Annual Max	<2.4		
	Endrin	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	10	76
					Annual Mean	<10		
					Annual Max	<10		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	9.4	71
					Annual Mean	<9.4		
					Annual Max	<9.4		
	Endrin wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.7	20
					Annual Mean	<2.7		
					Annual Max	<2.7		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.5	19
					Annual Mean	<2.5		
					Annual Max	<2.5		
	Endrin Aldehyde	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	50	76
					Annual Mean	<50		
					Annual Max	<50		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	45	71
					Annual Mean	<45		
					Annual Max	<45		
	Endrin Aldehyde wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	13	20
					Annual Mean	<13		
					Annual Max	<13		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	12	19
					Annual Mean	<12		
					Annual Max	<12		
	Endrin Ketone	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14	76
					Annual Mean	<14		
					Annual Max	<14		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13	71
					Annual Mean	<13		
					Annual Max	<13		
	Endrin Ketone wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3.6	20
					Annual Mean	<3.6		
					Annual Max	<3.6		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3.4	19
					Annual Mean	<3.4		
					Annual Max	<3.4		
	gamma-BHC	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	7.6	76
					Annual Mean	<7.6		
					Annual Max	<7.6		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	7.1	71
					Annual Mean	<7.1		
					Annual Max	<7.1		
	gamma-BHC wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.0	20
					Annual Mean	<2.0		
					Annual Max	<2.0		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	1.9	19
					Annual Mean	<1.9		
					Annual Max	<1.9		
	gamma-Chlordane wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	13	20
					Annual Mean	<13		
					Annual Max	<13		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	13	19
					Annual Mean	<13		
					Annual Max	<13		
	Heptachlor	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	9.2	76
					Annual Mean	<9.2		
					Annual Max	<9.2		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	8.6	71
					Annual Mean	<8.6		
					Annual Max	<8.6		
	Heptachlor wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.4	20
					Annual Mean	<2.4		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Max	<2.4		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.3	19
					Annual Mean	<2.3		
					Annual Max	<2.3		
	Heptachlor Epoxide	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	8.0	76
					Annual Mean	<8.0		
					Annual Max	<8.0		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	7.5	71
					Annual Mean	<7.5		
					Annual Max	<7.5		
	Heptachlor Epoxide wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.1	20
					Annual Mean	<2.1		
					Annual Max	<2.1		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.0	19
					Annual Mean	<2.0		
					Annual Max	<2.0		
	Kepone	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	130	380
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	120	350
					Annual Mean	<120		
					Annual Max	<120		
	Kepone wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	33	99
					Annual Mean	<33		
					Annual Max	<33		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	31	94
					Annual Mean	<31		
					Annual Max	<31		
	Methoxychlor	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	18	76
					Annual Mean	<18		
					Annual Max	<18		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16	71
					Annual Mean	<16		
					Annual Max	<16		
	Methoxychlor wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4.7	20
					Annual Mean	<4.7		
					Annual Max	<4.7		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4.4	19
					Annual Mean	<4.4		
					Annual Max	<4.4		
	Mirex	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17	76
					Annual Mean	<17		
					Annual Max	<17		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16	71
					Annual Mean	<16		
					Annual Max	<16		
	Mirex wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4.4	20
					Annual Mean	<4.4		
					Annual Max	<4.4		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4.2	19
					Annual Mean	<4.2		
					Annual Max	<4.2		
	o,p'-DDD	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	11	76
					Annual Mean	<11		
					Annual Max	<11		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	10	71
					Annual Mean	<10		
					Annual Max	<10		
	o,p'-DDD wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.9	20
					Annual Mean	<2.9		
					Annual Max	<2.9		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.8	19
					Annual Mean	<2.8		
					Annual Max	<2.8		
	o,p'-DDE	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	53	380
					Annual Mean	<53		
					Annual Max	<53		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	49	350
					Annual Mean	<49		
					Annual Max	<49		
	o,p'-DDE wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	14	99
					Annual Mean	<14		
					Annual Max	<14		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	13	94
					Annual Mean	<13		
					Annual Max	<13		
	o,p'-DDT	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14	76
					Annual Mean	<14		
					Annual Max	<14		
		EPA 8081B	µg/kg dry	Plant 2	01/10/2023	ND	13	71

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				Dewatering Cake	Annual Mean	<13		
					Annual Max	<13		
	o,p'-DDT wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3.6	20
					Annual Mean	<3.6		
					Annual Max	<3.6		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3.4	19
					Annual Mean	<3.4		
					Annual Max	<3.4		
	p,p'-DDD	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	11	76
					Annual Mean	<11		
					Annual Max	<11		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	10	71
					Annual Mean	<10		
					Annual Max	<10		
	p,p'-DDD wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.8	20
					Annual Mean	<2.8		
					Annual Max	<2.8		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.7	19
					Annual Mean	<2.7		
					Annual Max	<2.7		
	p,p'-DDE	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	10	76
					Annual Mean	<10		
					Annual Max	<10		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	9.7	71
					Annual Mean	<9.7		
					Annual Max	<9.7		
	p,p'-DDE wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.7	20
					Annual Mean	<2.7		
					Annual Max	<2.7		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.6	19
					Annual Mean	<2.6		
					Annual Max	<2.6		
	p,p'-DDT	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	18	76
					Annual Mean	<18		
					Annual Max	<18		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16	71
					Annual Mean	<16		
					Annual Max	<16		
	p,p'-DDT wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4.6	20
					Annual Mean	<4.6		
					Annual Max	<4.6		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4.4	19
					Annual Mean	<4.4		
					Annual Max	<4.4		
	Total DDTs	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	53	380
					Annual Mean	<53		
					Annual Max	<53		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	49	350
					Annual Mean	<49		
					Annual Max	<49		
	Total DDTs wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	14	99
					Annual Mean	<14		
					Annual Max	<14		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	13	94
					Annual Mean	<13		
					Annual Max	<13		
	Total Heptachlors	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	9.2	76
					Annual Mean	<9.2		
					Annual Max	<9.2		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	8.6	71
					Annual Mean	<8.6		
					Annual Max	<8.6		
	Total Heptachlors wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.4	20
					Annual Mean	<2.4		
					Annual Max	<2.4		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.3	19
					Annual Mean	<2.3		
					Annual Max	<2.3		
	Toxaphene	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	230	380
					Annual Mean	<230		
					Annual Max	<230		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	220	350
					Annual Mean	<220		
					Annual Max	<220		
	Toxaphene wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	61	99
					Annual Mean	<61		
					Annual Max	<61		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	58	94
					Annual Mean	<58		
					Annual Max	<58		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
PCBs	PCB 1016	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
		EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710
					Annual Mean	<560		
					Annual Max	<560		
	PCB 1016 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
	PCB 1221	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
		EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710
					Annual Mean	<560		
					Annual Max	<560		
	PCB 1221 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
	PCB 1232	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
		EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710
					Annual Mean	<560		
					Annual Max	<560		
	PCB 1232 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
	PCB 1242	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
		EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710
					Annual Mean	<560		
					Annual Max	<560		
	PCB 1242 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
	PCB 1248	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
		EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710
					Annual Mean	<560		
					Annual Max	<560		
	PCB 1248 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
	PCB 1254	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	370	730
					Annual Mean	<370		
					Annual Max	<370		
		EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	370	710
					Annual Mean	<370		
					Annual Max	<370		
	PCB 1254 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	98	190
					Annual Mean	<98		
					Annual Max	<98		
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	99	190
					Annual Mean	<99		
					Annual Max	<99		
	PCB 1260	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	370	730
					Annual Mean	<370		
					Annual Max	<370		
		EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	370	710
					Annual Mean	<370		
					Annual Max	<370		
	PCB 1260 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	98	190
					Annual Mean	<98		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Max	<98		
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	99	190
					Annual Mean	<99		
					Annual Max	<99		
	Total PCBs	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
		EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710
					Annual Mean	<560		
					Annual Max	<560		
	Total PCBs wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
Herbicides	2,4,5-TP (Silvex)	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	600	1200
					Annual Mean	<600		
					Annual Max	<600		
		EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	610	1200
					Annual Mean	<610		
					Annual Max	<610		
	2,4,5-TP (Silvex) wet weight	EPA 8151A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	160	311
					Annual Mean	<160		
					Annual Max	<160		
		EPA 8151A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	160	328
					Annual Mean	<160		
					Annual Max	<160		
	2,4-D	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	7900	16000
					Annual Mean	<7900		
					Annual Max	<7900		
		EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	8200	16000
					Annual Mean	<8200		
					Annual Max	<8200		
	2,4-D wet weight	EPA 8151A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2100	4150
					Annual Mean	<2100		
					Annual Max	<2100		
		EPA 8151A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2200	4370
					Annual Mean	<2200		
					Annual Max	<2200		
	Pentachlorophenol	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	790	1600
					Annual Mean	<790		
					Annual Max	<790		
		EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	820	1600
					Annual Mean	<820		
					Annual Max	<820		
	Pentachlorophenol wet weight	EPA 8151A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	210	415
					Annual Mean	<210		
					Annual Max	<210		
		EPA 8151A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	220	437
					Annual Mean	<220		
					Annual Max	<220		
Dioxins/Furans	2,3,7,8-TCDD	EPA 8290A	pg/g	Plant 1 Dewatering Cake	01/10/2023	ND	0.097	1.0
					Annual Mean	<0.097		
					Annual Max	<0.097		
			pg/g dry	Plant 1 Dewatering Cake	01/10/2023	ND	0.37	3.8
					Annual Mean	<0.37		
					Annual Max	<0.37		
		EPA 8290A	pg/g	Plant 2 Dewatering Cake	01/10/2023	ND	0.086	0.99
					Annual Mean	<0.086		
					Annual Max	<0.086		
			pg/g dry	Plant 2 Dewatering Cake	01/10/2023	ND	0.32	3.7
					Annual Mean	<0.32		
					Annual Max	<0.32		
Other	Asbestos	EPA/600/R-93/116	%	Plant 1 Dewatering Cake	01/10/2023	ND	--	1
					07/11/2023	ND	--	1
					Annual Mean	<1		
					Annual Max	<1		
			% dry weight	Plant 1 Dewatering Cake	01/10/2023	ND	--	4
					07/11/2023	ND	--	4
					Annual Mean	<4		
					Annual Max	<4		
		EPA/600/R-93/116	%	Plant 2 Dewatering Cake	01/10/2023	ND	--	1
					07/11/2023	ND	--	1
					Annual Mean	<1		
					Annual Max	<1		
			% dry weight	Plant 2 Dewatering Cake	01/10/2023	ND	--	4
					07/11/2023	ND	--	4
					Annual Mean	<4		
					Annual Max	<4		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
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 (or RL if not 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 (or RL if not 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.

Appendix D. EPA Biosolids Annual Report Electronic Forms

NPDES FORM 6100-035	EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 BIOSOLIDS ANNUAL REPORT	Form Approved. OMB No. 2040-0004. Exp. 07/31/2026

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), 503.28 (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)). 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)), 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)' 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 this Program Report

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)) for further guidance.

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

Burden Statement

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 NPDES 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 one to five 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 to the Regulatory Support Division Director, 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.

Facility Information

Facility Name: ORANGE COUNTY SD #1

NPDES ID: CAL110604

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).

28679

Reporting Period Start Date: 01/01/2023 **Reporting Period End Date:** 12/31/2023

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-NH3 - Ammonia Nitrogen
- EPA Method 9056 - Nitrate Nitrogen (IC)
- 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 9056 - Nitrite Nitrogen (IC)

Sludge Management - Land Application

ID: 001

Amount: 7210

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

Facility Information:
Tule Ranch - Ag Tech
3895 W. County 19th Street
Somerton, AZ 85350
US

Contact Information:
Kurt Wyrick
Controller
559-970-9432
kurt@westexp.com

Amount Transferred (dry metric tons):
7210

Management Practice Detail: Agricultural Land Application

Bulk or Bag/Container: Bulk

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)). 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. You can adjust the start and end dates as needed. Please note that the compliance monitoring periods cannot overlap and that each compliance monitoring period must have a start date that is equal to or less than the end date. The number of compliance monitoring periods is based on the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period (summed across all land application SSUIDs). For example, you will need to provide monitoring data for 12 compliance monitoring periods for each land application SSUID when you land apply 15,000 or more metric tons (dry weight basis) of sewage sludge or biosolids (summed across all land application SSUIDs) in the reporting period (see 40 CFR 503.16 (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:** 01/01/2023 | **Compliance Monitoring Period End Date:** 02/28/2023

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	=	11	
Cadmium	=	3.5	
Copper	=	460	
Lead	=	11	
Mercury	=	0.87	
Molybdenum	=	15	
Nickel	=	34	
Selenium	=	7.6	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).

    - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	63	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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	J (Below RL but Above MDL)	2.6	
Copper	=	420	
Lead	J (Below RL but Above MDL)	7.1	
Mercury	=	0.67	
Nickel	=	30	
Selenium	J (Below RL but Above MDL)	7	
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)	=	57000	

Compliance Monitoring Event No. 2	Compliance Monitoring Period Start Date:	Compliance Monitoring Period End Date:
		04/30/2023

03/01/2023

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	J (Below RL but Above MDL)	10	
Cadmium	=	6.1	
Copper	=	400	
Lead	=	13	
Mercury	=	0.87	
Molybdenum	=	17	
Nickel	=	38	
Selenium	J (Below RL but Above MDL)	11	
Zinc	=	730	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	62	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-

vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].

- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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)	8.5	
Cadmium	=	3.5	
Copper	=	390	
Lead	=	11	
Mercury	=	0.77	
Nickel	=	34	
Selenium	J (Below RL but Above MDL)	9.2	
Zinc	=	690	

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. 3 **Compliance Monitoring Period Start Date:** 05/01/2023 **Compliance Monitoring Period End Date:** 06/30/2023

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	J (Below RL but Above MDL)	9.8	

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
Cadmium	=	3.5	
Copper	=	470	
Lead	=	12	
Mercury	=	0.68	
Molybdenum	=	23	
Nickel	=	36	
Selenium	J (Below RL but Above MDL)	11	
Zinc	=	850	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	60	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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)	9.3	
Cadmium	J (Below RL but Above MDL)	1.8	

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
Copper	=	440	
Lead	=	11	
Mercury	=	0.58	
Nickel	=	30	
Selenium	J (Below RL but Above MDL)	9.6	
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)	=	58000	

Compliance Monitoring Event No. 4 **Compliance Monitoring Period Start Date:** 07/01/2023 **Compliance Monitoring Period End Date:** 08/31/2023

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	J (Below RL but Above MDL)	6.3	
Cadmium	=	4	
Copper	=	480	
Lead	=	16	
Mercury	=	0.64	
Molybdenum	=	18	
Nickel	=	40	
Selenium	J (Below RL but Above MDL)	8.3	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	63	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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)	6	
Cadmium	=	3.4	
Copper	=	420	
Lead	=	12	
Mercury	=	0.56	
Nickel	=	34	
Selenium	J (Below RL but Above MDL)	7.2	
Zinc	=	720	

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)	=	55000	

Compliance Monitoring Event No. 5	Compliance Monitoring Period Start Date:	Compliance Monitoring Period End Date:
		10/31/2023

09/01/2023

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	J (Below RL but Above MDL)	6.5	
Cadmium	=	3.8	
Copper	=	450	
Lead	=	13	
Mercury	=	0.51	
Molybdenum	=	16	
Nickel	=	45	
Selenium	J (Below RL but Above MDL)	7.8	
Zinc	=	810	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	65	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-

vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].

- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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)	6	
Cadmium	=	3.6	
Copper	=	420	
Lead	=	12	
Mercury	=	0.48	
Nickel	=	36	
Selenium	J (Below RL but Above MDL)	6.2	
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. 6 **Compliance Monitoring Period Start Date:** 11/01/2023 **Compliance Monitoring Period End Date:** 12/31/2023

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	J (Below RL but Above MDL)	6.8	

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
Cadmium	=	4.1	
Copper	=	430	
Lead	=	13	
Mercury	=	0.78	
Molybdenum	=	15	
Nickel	=	45	
Selenium	J (Below RL but Above MDL)	7.8	
Zinc	=	760	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	62	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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)	6.3	
Cadmium	J (Below RL but Above MDL)	3.1	

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
Copper	=	400	
Lead	J (Below RL but Above MDL)	9.7	
Mercury	=	0.55	
Nickel	=	40	
Selenium	J (Below RL but Above MDL)	6.2	
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)	=	53000	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 002

Amount: 5432

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility - Class 1 Sludge Management Facility

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
US

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

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 003

Amount: 7224

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility - Class 1 Sludge Management Facility

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

NPDES ID of handler:

Facility Information:
Synagro - South Kern Compost Manufacturing Facility
PO Box 265
Taft, CA 93268
US

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

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 004

Amount: 8063

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility - Class 1 Sludge Management Facility

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

NPDES ID of handler:

Facility Information:
Synagro - Liberty Compost
12421 Holloway Road
Lost Hills, CA 93249
US

Contact Information:
Wilson Nolan
Site Manager
661-619-7320
wnolan@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 005

Amount: 637

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility - Class 1 Sludge Management Facility

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

NPDES ID of handler:

Facility Information:
Synagro - Arizona Soils
5615 S. 91st Ave.
Tollesson, AZ 85353
US

Contact Information:
Brian Millage
Site Manager
623-626-0974
bmillage@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 006

Amount: 111

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility - Class 1 Sludge Management Facility

Handler, 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
US

Contact Information:
Jeff Ziegenbein
Site Manager
909-993-1981
jziegenbein@ieua.org

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

OC San has attached the electronic version of the annual report broken into smaller sections. Alternatively, the complete file is available at www.ocsan.gov/503. Please contact Matthew Smith at msmith@ocsan.gov or 714-593-7439 if you have any questions.

Additional Attachments

Name	Created Date	Size
OC_San_Biosolids_Annual_Report_2023_Part-1_Report-Body.pdf	02/15/2024 7:39 PM	1.17 MB
OC_San_Biosolids_Annual_Report_2023_Part-2_Appx-A.pdf	02/15/2024 7:39 PM	2.70 MB
OC_San_Biosolids_Annual_Report_2023_Part-3_Appx-B,C,E.pdf	02/15/2024 7:40 PM	2.26 MB
OC_San_Biosolids_Annual_Report_2023_Cover_Letter.pdf	02/15/2024 8:49 PM	286.95 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: 02/15/2024 6:03 PM ET

NPDES FORM 6100-035	EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 BIOSOLIDS ANNUAL REPORT	Form Approved. OMB No. 2040-0004. Exp. 07/31/2026

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), 503.28 (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)). 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)), 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)' 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 this Program Report

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)) for further guidance.

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

Burden Statement

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 NPDES 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 one to five 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 to the Regulatory Support Division Director, 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.

Facility Information

Facility Name: ORANGE COUNTY SD #2

NPDES ID: CAL120604

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).

15989

Reporting Period Start Date: 01/01/2023 **Reporting Period End Date:** 12/31/2023

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-NH3 - Ammonia Nitrogen
- EPA Method 9056 - Nitrate Nitrogen (IC)
- 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 Method 9056 - Nitrite Nitrogen (IC)

Sludge Management - Land Application

ID: 001

Amount: 11615

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

Facility Information:
Tule Ranch - Ag Tech
3895 W. County 19th Street
Somerton, AZ 85350
US

Contact Information:
Kurt Wyrick
Controller
559-970-9432
kurt@westexp.com

Amount Transferred (dry metric tons):
11615

Management Practice Detail: Agricultural Land Application

Bulk or Bag/Container: Bulk

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)). 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. You can adjust the start and end dates as needed. Please note that the compliance monitoring periods cannot overlap and that each compliance monitoring period must have a start date that is equal to or less than the end date. The number of compliance monitoring periods is based on the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period (summed across all land application SSUIDs). For example, you will need to provide monitoring data for 12 compliance monitoring periods for each land application SSUID when you land apply 15,000 or more metric tons (dry weight basis) of sewage sludge or biosolids (summed across all land application SSUIDs) in the reporting period (see 40 CFR 503.16 (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:** 01/01/2023 | **Compliance Monitoring Period End Date:** 02/28/2023

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	=	13	
Cadmium	=	1.1	
Copper	=	340	
Lead	=	8.1	
Mercury	=	0.74	
Molybdenum	=	17	
Nickel	=	26	
Selenium	=	6.3	
Zinc	=	600	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).

- When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	62	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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	
Cadmium	J (Below RL but Above MDL)	1.2	
Copper	=	320	
Lead	J (Below RL but Above MDL)	3.9	
Mercury	=	0.6	
Nickel	=	24	
Selenium	J (Below RL but Above MDL)	5.7	
Zinc	=	590	

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:	Compliance Monitoring Period End Date:
		04/30/2023

03/01/2023

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	=	14	
Cadmium	=	6.9	
Copper	=	340	
Lead	=	11	
Mercury	=	0.58	
Molybdenum	=	24	
Nickel	=	31	
Selenium	=	11	
Zinc	=	660	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	70	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))].

Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].

- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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	=	3.5	
Copper	=	320	
Lead	=	9.5	
Mercury	=	0.51	
Nickel	=	28	
Selenium	J (Below RL but Above MDL)	8.6	
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)	=	47000	

Compliance Monitoring Event No. 3 **Compliance Monitoring Period Start Date:** 05/01/2023 **Compliance Monitoring Period End Date:** 06/30/2023

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	=	13	
Cadmium	=	3.8	
Copper	=	360	

Sewage 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	=	0.52	
Molybdenum	=	30	
Nickel	=	30	
Selenium	=	12	
Zinc	=	710	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	63	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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)	12	
Cadmium	J (Below RL but Above MDL)	1.7	
Copper	=	360	
Lead	=	10	
Mercury	=	0.43	

Sewage 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	=	27	
Selenium	J (Below RL but Above MDL)	9.3	
Zinc	=	690	

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: 07/01/2023

Compliance Monitoring Period End Date: 08/31/2023

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	J (Below RL but Above MDL)	9.5	
Cadmium	=	4.5	
Copper	=	400	
Lead	=	13	
Mercury	=	0.57	
Molybdenum	=	25	
Nickel	=	34	
Selenium	J (Below RL but Above MDL)	7.9	
Zinc	=	780	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.

- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	57	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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)	7.9	
Cadmium	=	3.8	
Copper	=	350	
Lead	=	11	
Mercury	=	0.48	
Nickel	=	32	
Selenium	J (Below RL but Above MDL)	6.9	
Zinc	=	700	

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. 5

Compliance Monitoring Period Start Date: 09/01/2023

Compliance Monitoring Period End Date: 10/31/2023

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	J (Below RL but Above MDL)	7.4	
Cadmium	=	2.9	
Copper	=	410	
Lead	=	13	
Mercury	=	0.56	
Molybdenum	=	21	
Nickel	=	45	
Selenium	J (Below RL but Above MDL)	8.9	
Zinc	=	860	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	64	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius

in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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)	7.4	
Cadmium	=	2.8	
Copper	=	360	
Lead	=	12	
Mercury	=	0.45	
Nickel	=	38	
Selenium	J (Below RL but Above MDL)	6.5	
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)	=	47000	

Compliance Monitoring Event No. 6 **Compliance Monitoring Period Start Date:** 11/01/2023 **Compliance Monitoring Period End Date:** 12/31/2023

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	J (Below RL but Above MDL)	8.7	
Cadmium	=	2.5	
Copper	=	330	

Sewage 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	=	0.77	
Molybdenum	=	15	
Nickel	=	34	
Selenium	J (Below RL but Above MDL)	8.9	
Zinc	=	680	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

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	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	60	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

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)	7.4	
Cadmium	J (Below RL but Above MDL)	1.9	
Copper	=	300	

Sewage 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	J (Below RL but Above MDL)	8.9	
Mercury	=	0.62	
Nickel	=	31	
Selenium	J (Below RL but Above MDL)	6.3	
Zinc	=	630	

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	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 002

Amount: 252

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility - Class 1 Sludge Management Facility

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
US

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

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 003

Amount: 106

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility - Class 1 Sludge Management Facility

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

NPDES ID of handler:

Facility Information:
Synagro - South Kern Compost Manufacturing Facility
PO Box 265
Taft, CA 93268
US

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

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 004

Amount: 1987

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility - Class 1 Sludge Management Facility

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

NPDES ID of handler:

Facility Information:
Synagro - Liberty Compost
12421 Holloway Road
Lost Hills, CA 93249
US

Contact Information:
Wilson Nolan
Site Manager
661-619-7320
wnolan@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 006

Amount: 2030

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility - Class 1 Sludge Management Facility

Handler, 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
US

Contact Information:
Jeff Ziegenbein
Site Manager
909-993-1981
jziegenbein@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

OC San has attached the electronic version of the annual report broken into smaller sections. Alternatively, the complete file is available at www.ocsan.gov/503. Please contact Matthew Smith at msmith@ocsan.gov or 714-593-7439 if you have any questions.

Additional Attachments

Name	Created Date	Size
OC_San_Biosolids_Annual_Report_2023_Part-1_Report-Body.pdf	02/15/2024 7:49 PM	1.17 MB
OC_San_Biosolids_Annual_Report_2023_Part-2_Appx-A.pdf	02/15/2024 7:49 PM	2.70 MB
OC_San_Biosolids_Annual_Report_2023_Part-3_Appx-B,C,E.pdf	02/15/2024 7:49 PM	2.26 MB
OC_San_Biosolids_Annual_Report_2023_Cover_Letter.pdf	02/15/2024 8:50 PM	286.95 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: 02/15/2024 6:05 PM ET

Appendix E. ADEQ Biosolids Annual Report Form

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

1. Program Information: All preparers (Generators) and Land Applicators Must complete the following.

Reporting Start Date:1/1/2023	**Reporting End Date: 12/31/2023**
Date: 2/12/2024	**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	**Title: Director of Environmental Services**
Address: 10844 Ellis Ave., Fountain Valley, CA 92708 **Phone: 714-593-7450**	**E-mail: lwiborg@ocsan.gov**

Please select one of the following options pertaining to your obligation to submit a Biosolids Annual Report. My facility is a:

☒ POTW with a design flow equal to or greater than 1 MGD Per Day

☒ POTW that serves 10,000 people or more

☐ Class I Sludge Management Facility as defined by 40 CFR 503.9

☐ Biosolids Applicator (Complete Section 5 only)

☐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)?

44,668

Were all biosolids removed from your facility sent to a landfill for disposal? **No**

If yes, provide the name and address of the landfill(s). Click here to enter text.

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.

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: Title: Director of Environmental Services	Date: 2/15/2024

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

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.

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.	18,825
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	5,684	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:	Off-Site Third-Party Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	637	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	**Inland Empire Regional Composting Facility**	
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	2,141	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 Liberty Compost**	
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	10,050	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 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	7,331	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.

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.

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 s sewage sludge incinerator, must be collected and analyzed. These regulations specify the analytical methods that must be used to analyzed samples of sewage sludge.

Parameter	*Method Number or Author*	*Results (if tested)*	*Comments (required if other)*
Pathogens			
Ascaris ova.	No Analytical Method Used	Click here to enter text.	Not Applicable
Fecal Coliform	No Analytical Methods Used	Click here to enter text.	Not Applicable
Helminth ova.	No Analytical Methods Used	Click here to enter text.	Not Applicable
Salmonella sp. Bacteria	No Analytical Methods Used	Click here to enter text.	Not Applicable
Total Cultural Viruses	No Analytical Methods Used	Click here to enter text.	Not Applicable
Metals			
Arsenic	EPA Method 6010 - Arsenic (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Beryllium	Other Beryllium Analytical Method	See attached OC San Biosolids Management Compliance Report, Appendix C.	EPA Method 6010 - Beryllium
Cadmium	EPA Method 6010 - Cadmium (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Chromium	EPA Method 6010 - Chromium (ICP-OES)	See attached OC San Biosolids Management Compliance Report, appendices A and C.	Click here to enter text.
Copper	EPA Method 6010 - Copper (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Lead	EPA Method 6010 - Lead (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Mercury	EPA Method 7471 - Mercury (CVAA)	See attached OC San Biosolids Management Compliance	Click here to enter text.

		Report, Appendices A, C, and D.	
Molybdenum	EPA Method 6010 - Molybdenum (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nickel	EPA Method 6010 - Nickel (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Selenium	EPA Method 6010 - Selenium (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Zinc	EPA Method 6010 - Zinc (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nitrogen Compounds			
Ammonia Nitrogen	Standard Method 4500-NH3 - Ammonia Nitrogen	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nitrate Nitrogen	Other Nitrate Nitrogen Analytical Method	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	EPA 9056A
Nitrogen	Other Nitrogen Analytical Method	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Calculation
Organic Nitrogen	Other Organic Nitrogen Analytical Method	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Calculation
Total Kjeldahl Nitrogen	EPA Method 351.2 - Total Kjeldahl Nitrogen	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Other Analytes			
Fixed Solids	No Analytical Method Used	Click here to enter text.	Not Applicable
Paint Filter Test	No Analytical Method Used	Click here to enter text.	Not Applicable

pH	EPA Method 9045 - pH (> 7% solids)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Specific Oxygen Uptake Rate	No Analytical Method Used	Click here to enter text.	Not Applicable
TCLP	No Analytical Method Used	Click here to enter text.	Not Applicable
Temperature	No Analytical Method Used	Click here to enter text.	Not Applicable
Total Solids	Standard Method 2540 - Total Solids	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Volatile Solids	Standard Method 2540 - Volatile Solids	See attached OC San Biosolids Management Compliance Report, Appendix A and D.	Click here to enter text.
No Analytical Methods Used	not applicable	Click here to enter text.	Click here to enter text.

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 Cumulative Concentration of Pollutants (kilograms per hectare) in Soil				
Example: ABC Farms, Aztec AZ	*1A*	*350 tons*	*Aztec WWTP*	*Class B Alt. 2*	*Option 9*	*Tons or Kg/acre*		*Corn*						
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.
										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.
	Click here									As=Click here to	Cd=Click here to	Cr=Click here to	Cu=Click here to	Pb=Click here to

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.	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.	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.	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=