

Orange County Sanitation District

BIOSOLIDS MANAGEMENT COMPLIANCE REPORT

EPA 40 CFR PART 503

YEAR 2022



February 16, 2023

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

SUBJECT: Orange County Sanitation District Annual Compliance Report

Enclosed please find the Orange County Sanitation District (OC San) Biosolids Management Compliance Report as required under the 40 CFR Part 503 regulations, Arizona Administrative Code Article 10, and the National Pollution Discharge Elimination System (NPDES) Permit No. CA0110604, Order No. R8-2021-0010, Attachment G.

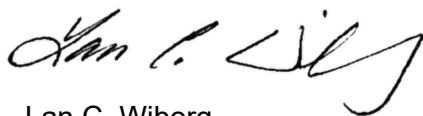
OC San has uploaded this report into the EPA biosolids electronic reporting database and submitted e-mail copies to state and local regulators. A copy of OC San's EPA electronic report is included as Appendix D.

Certification Statement

The following certifications satisfy procedural requirements as listed in section V.B.5 of the Orange County Sanitation District NPDES Permit No. CA0110604 and 40 CFR part 503, section 503.17 for the submittal of the attached compliance report for calendar year 2022.

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

If you have any questions, comments, or require additional data, please contact Cindy Vellucci at (714) 593-7156. I can be reached at (714) 593-7450.



Lan C. Wiborg
Director of Environmental Services

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Enclosures

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

February 16, 2023

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

SUBJECT: Orange County Sanitation District Annual Compliance Report

Enclosed please find the Orange County Sanitation District (OC San) Biosolids Management Compliance Report as required under the 40 CFR Part 503 regulations, Arizona Administrative Code Article 10, and the National Pollution Discharge Elimination System (NPDES) Permit No. CA0110604, Order No. R8-2021-0010, Attachment G.

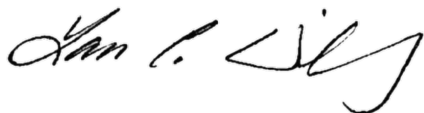
OC San has uploaded this report to the EPA biosolids electronic reporting database and submitted e-mail copies to state and local regulators. A copy of OC San's Arizona biosolids annual reporting form is included as Appendix E, and the EPA electronic report is included as Appendix D.

Certification Statement

The following certifications satisfy procedural requirements as listed in Arizona Administrative Code Article 10 under section R18-9-1013 for the submittal of the attached EPA 40 CFR Part 503 Compliance Report for calendar year 2022.

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

If you have any questions, comments, or require additional data, please contact Cindy Vellucci at (714) 593-7156. I can be reached at (714) 593-7450.



Lan C. Wiborg
Director of Environmental Services

LCW:CV:TM:bg

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Enclosures

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

2022 BIOSOLIDS MANAGEMENT COMPLIANCE REPORT

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Biosolids Regulatory Requirements
Treatment Plants
Biosolids Management
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Section 1. Introduction

The Orange County Sanitation District (OC San) manages biosolids, which consist of the nutrient-rich organic matter recovered through the wastewater treatment process that are beneficially used offsite (recycled), in accordance with all local, state, and federal regulations and 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, having two plants, Reclamation Plant No. 1 located in the city of Fountain Valley and Treatment Plant No. 2 located in the city of Huntington Beach. OC San is classified as a special district agency that is governed by a Board of Directors consisting of twenty-five board members appointed from twenty cities, four special districts, and one representative from the Orange County Board of Supervisors.

This annual compliance report summarizes OC San's biosolids activities and performances for the reporting period of January 1 to December 31, 2022.

Section 2. Biosolids Regulatory Requirements

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

Table 1 illustrates OC San's NPDES permit annual reporting requirements for biosolids:

Table 1 – OC San NPDES Permit Requirements	
Requirement	Annual Report Related Section
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	Appendix E contains the submitted USEPA CDX electronic report plus this entire report is emailed to USEPA, Water Board, and Arizona regulators.

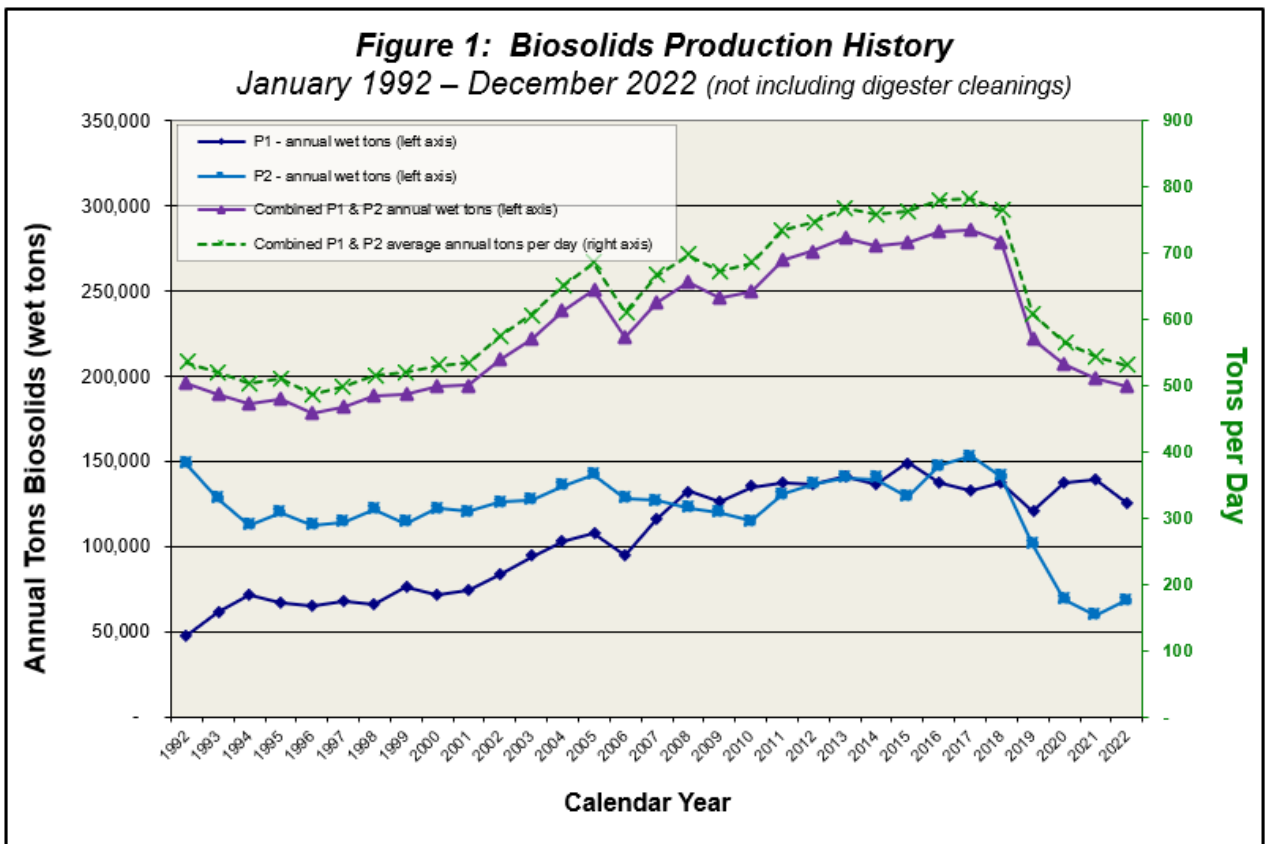
Table 1 – OC San NPDES Permit Requirements	
Requirement	Annual Report Related Section
revised version thereof. If the Discharger is not in compliance with any conditions or requirements of this Order/Permit, the Discharger shall include the reasons for noncompliance and shall state how and when the Discharger will comply with such conditions and requirements.	
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 , by February 19 of each year for the period covering the previous calendar year.	Appendix E contains the submitted USEPA CDX electronic report plus this entire report is emailed to USEPA, Water Board, and Arizona regulators.
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.	Table 3 below, Appendix E
The report shall include the following attachments:	
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.	Lab reports are available on OC San internal network.
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).	Appendix 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.	Not applicable (no biosolids stored on-site or off-site).
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	Tule Ranch/Ag-Tech is required to independently submit to USEPA and Arizona regulators.

Table 1 – OC San NPDES Permit Requirements	
Requirement	Annual Report Related Section
Nitrogen; and copies of applier’s certifications of management practices and site restrictions.	

Section 3. Treatment Plants

During the 2022 annual reporting period, Reclamation Plant No. 1 treated an average of 119 MGD of wastewater and Treatment Plant No. 2 treated an average of 60 MGD, producing a combined total of 193,830 wet tons of biosolids (45,414 dry metric tons), which equates to an average of 531 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 28% 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.



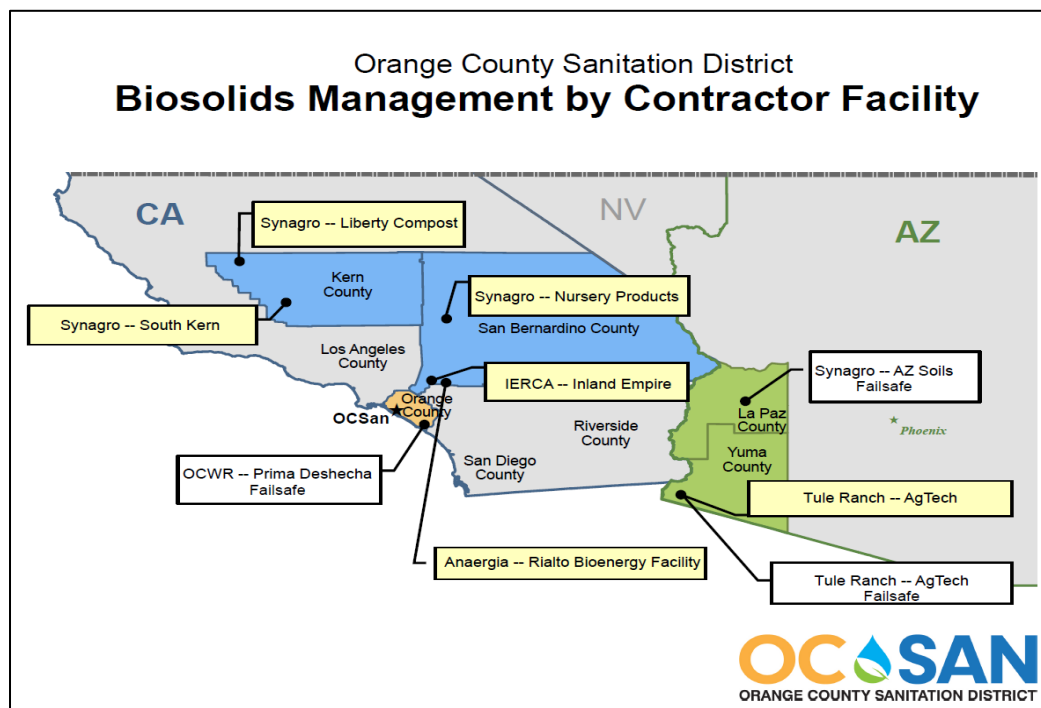
For this annual reporting period, OC San’s biosolids met the following regulatory standards and/or criteria:

- 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 ADEQ standards, and therefore OC San is not required to meet Class B standards at the plants in order to utilize for these biosolids management options.

Section 4. Biosolids Management

OC San is committed in supporting beneficial reuse of biosolids (OC San Resolution 13-03). During this reporting period, OC San recycled 99.8% of OC San’s biosolids with about 1.4% of which originating from digester cleaning materials that went to Liberty Compost in Kern County (California). The remaining 83 dry tons (0.2%) of biosolids went to landfills due to a driver and hauling shortage during October and November 2022. Refer to Figure 2 Distribution Map.

Figure 2 – Orange County Sanitation District Biosolids Management by Contractor Facility



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 USEPA, in accordance with OC San's NPDES permit requirements.

Table 2- Biosolids Management Contractors	
<p>Synagro - Nursery Products PO Box 1439 Helendale, CA 92342 Contact: Venny Vasquez, Manager Phone: (760) 265-5210 Email: vvasquez@SYNAGRO.com</p>	<p>Synagro – South Kern Compost Manufacturing Facility PO Box 265 Taft, CA 93268 Contact: Rob Rankin, Manager Phone: (661) 765-2200 Email: rrankin@SYNAGRO.com</p>
<p>Liberty Compost 12421 Holloway Rd. Lost Hills, CA 93249 Contact: Wilson Nolan, Manager Phone: (661) 619-7320 Email: WNolan@synagro.com</p>	<p>Synagro – Arizona Soils 5615 S. 91st Avenue Tolleson, AZ 85353 Contact: Craig Geyer, Manager Phone: (623) 936-6328 Email: CGeyer@SYNAGRO.com</p>
<p>Tule Ranch / Ag-Tech 4324 E. Ashlan Ave. Fresno, CA 93726 Contact: Kurt Wyrick, Controller Phone: (559) 970-9432 Email: kurt@westexp.com</p>	<p>Inland Empire Regional Composting Authority 12645 6th Street Rancho Cucamonga, CA 91739 Contact: Jeff Ziegenbein, Manager Phone: (909) 993-1981 Email: jziegenbein@ieua.org</p>
<p>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</p>	

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 3 - Biosolids Managed Tonnage Distribution

Quantity Generated	Plant No. 1	Plant No. 2	Total	Relative %
Tule Ranch AZ (land application) (wet tons)	25,825	42,701	68,525	35%
Tule Ranch AZ (land application) (dry metric tons)	5,743	10,950	16,694	
Liberty Compost CA (wet tons)	40,914	16,087	57,001	29%
Liberty Compost CA (dry metric tons)	9,230	4,005	13,235	
Rialto Bioenergy Facility CA - heat drying (wet tons)	15,387	1,336	16,723	9%
Rialto Bioenergy Facility CA - heat drying (dry metric tons)	3,428	341	3,768	
Synagro - Nusery Products CA - (compost) (wet tons)	22,018	0	22,018	11%
Synagro - Nusery Products CA - (compost) (dry metric tons)	4,869	0	4,869	
Synagro - South Kern - compost (wet tons)	18,160	0	18,160	9.4%
Synagro - South Kern - compost (dry metric tons)	4,049	0	4,049	
Synagro - AZ Soils - compost (wet tons)	2,452	0	2,452	1.3%
Synagro - AZ Soils - compost (dry metric tons)	543	0	543	
Inland Empire Regional Composting (wet tons)	222	8,363	8,585	4.4%
Inland Empire Regional Composting (dry metric tons)	50	2,124	2,174	
La Paz Landfill, AZ (landfill) (wet tons)	0	0	0	0.0%
La Paz Landfill, AZ (landfill) (dry tons)	0	0	0	
Holloway, CA (landfill) (wet tons)	119	0	119	0.1%
Holloway, CA (landfill) (dry tons)	27	0	27	
Prima Landfill (landfill) (wet tons)	247	0	247	0.1%
Prima Landfill CA (landfill) (dry tons)	56	0	56	
Total Wet Tons	125,343	68,487	193,830	100%
Total Dry Metric Tons	27,994	17,420	45,414	182

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 average 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.

Since 1976, OC San’s Pretreatment Program has been successfully reducing the average mass of metals discharged to the marine environment by 99% and the total mass of metals in the influent sewage by 89%, 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 (www.ocsan.gov/PreTreatAnnual, 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 annually verifies its biosolids are non-hazardous. 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. Relevant regulations regarding hazardous waste are found in the California Code of Regulations 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.
- OC San performs annual testing of an extensive list of organic and inorganic compounds to verify the continued non-hazardousness of our biosolids.
- 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 biosolids news, biosolids videos (www.youtube.com/OrangeCountySanitationDistrict), and 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 four (4) contractor site inspections in 2022,
- Reviewed Local Enforcement Agency reports and monthly contractor reports to maintain an ongoing understanding of each contractor compliance status.
- Notice of Violations (NOVs) were issued for two (2) biosolids contractors by local enforcement agencies during this annual reporting period. OC San has closely monitored each open issue and maintained communications with the contractor to track progress in addressing outstanding NOVs:
 - Nursery Products has received multiple NOVs from several agencies over the last year. The majority of these NOVs originated from a fire that occurred on 5/28/2022 and continued smoldering thereafter. The facility received a cease-and-desist in 2022 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 is planning to return to full operational capacity sometime during the first half of 2023.
 - Rialto Bioenergy Facility: The LEA issued an NOV to the facility in early 2022 because a report was submitted late. The facility has since implemented a compliance reporting calendar.
- Performed 23 hauling inspections, which encompassed 23 out of 41 regular drivers this year. There are nine active drivers who are currently on OC San's "Honor Roll" for successfully passing three consecutive hauler inspections by demonstrating their excellence in truck cleanliness and knowledge of biosolids and emergency protocols. Many have been placed back in the hauler pool to inspect for another three consecutive inspections as their honor roll status have expired after three years.

APPENDIX A Biosolids Monthly Compliance Reports, January – December 2022



**Table 1: OC San Biosolids Wet and Dry Tonnage Distribution, Plant No. 1
Table 2: OC San Biosolids Wet and Dry Tonnage Distribution, Plant No. 2
Biosolids Monthly Compliance Reports, January – December 2022**

Table 1: OC San Biosolids Wet and Dry Tonnage Distribution

Reclamation Plant No. 1, Fountain Valley, CA

Biosolids Generated	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average	
Biosolids Total Solids (%)	24	24	25	24	25	24	25	25	25	25	25	24	25	
Management Locations	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total	
Tule Ranch AZ - land application (wet tons)	2,003	1,425	1,611	1,966	2,120	2,564	1,858	2,192	2,111	2,021	2,616	3,338	25,825	Wet Tons 125,343
Tule Ranch AZ - land application (dry metric tons)	436	310	365	428	481	558	421	487	479	458	593	727	5,743	
Liberty Compost CA (wet tons)	2,374	1,867	2,375	1,792	1,336	3,128	5,976	6,103	1,266	5,895	3,598	4,731	40,440	Dry Tons 27,994
Liberty Compost CA (dry metric tons)	517	406	538	390	303	681	1,355	1,356	287	1,337	816	1,030	9,016	
Rialto Bioenergy Facility CA - heat drying (wet tons)	1,134	1,458	1,189	1,833	1,189	1,360	944	917	2,004	1,288	1,552	519	15,387	Dry Tons 27,994
Rialto Bioenergy Facility CA - heat drying (dry metric tons)	247	317	270	399	270	296	214	204	455	292	352	113	3,428	
Synagro - Nusery Products CA - compost (wet tons)	4,100	4,333	4,257	3,831	4,096	1,401	0	0	0	0	0	0	22,018	Dry Tons 27,994
Synagro - Nusery Products CA - compost (dry metric tons)	893	943	965	834	929	305	0	0	0	0	0	0	4,869	
Synagro - South Kern - compost (wet tons)	1,383	809	1,383	1,383	1,286	1,278	1,279	1,458	1,780	1,782	2,388	1,953	18,160	Dry Tons 27,994
Synagro - South Kern - compost (dry metric tons)	301	176	314	301	292	278	290	324	404	404	541	425	4,049	
Synagro - AZ Soils - compost (wet tons)	0	0	0	0	0	351	543	519	50	0	123	866	2,452	Dry Tons 27,994
Synagro - AZ Soils - compost (dry metric tons)	0	0	0	0	0	76	123	115	11	0	28	189	543	
Inland Empire Regional Composting (wet tons)	0	25	0	24	49	0	0	75	49	0	0	0	222	Dry Tons 27,994
Inland Empire Regional Composting (dry metric tons)	0	5	0	5	11	0	0	17	11	0	0	0	50	
Holloway Landfill (wet tons)	0	0	0	0	0	0	0	0	0	119	0	0	119	Dry Tons 27,994
Holloway Landfill (dry metric tons)	0	0	0	0	0	0	0	0	0	27	0	0	27	
Prima Landfill (wet tons)	0	0	0	0	0	0	0	0	0	148	99	0	247	Dry Tons 27,994
Prima Landfill (dry tons)	0	0	0	0	0	0	0	0	0	34	22	0	56	
Total Wet Tons	10,995	9,915	10,816	10,829	10,077	10,082	10,600	11,263	7,260	11,252	10,375	11,407	124,869	Dry Tons 27,994
Total Dry Metric Tons	2,393	2,158	2,452	2,357	2,285	2,195	2,404	2,503	1,646	2,551	2,352	2,483	27,780	
Digester Cleanings	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total	
Digester(s)	6											12		Dry Tons 27,994
Digester Cleaning Total Solids Percents	54											18		
Liberty Compost (compost) (wet tons)	418	0	0	0	0	0	0	0	0	0	0	56	474	Dry Tons 27,994
Liberty Compost (compost) (dry metric tons)	205	0	0	0	0	0	0	0	0	0	0	9	214	
Digester Cleaning Total Wet Tons	418	0	0	0	0	0	0	0	0	0	0	56	474	Dry Tons 27,994
Total Dry Metric Tons	205	0	0	0	0	0	0	0	0	0	0	9	214	
Total Wet Tons (Biosolids plus Digester Cleanings)	11,413	9,915	10,816	10,829	10,077	10,082	10,600	11,263	7,260	11,252	10,375	11,463	125,343	Dry Tons 27,994
Total Dry Metric Tons (Biosolids plus Digester Cleanings)	2,598	2,158	2,452	2,357	2,285	2,195	2,404	2,503	1,646	2,551	2,352	2,492	27,994	

Table 2: OC San Biosolids Wet and Dry Tonnage Distribution

Wastewater Treatment Plant No. 2, Huntington Beach, CA

Biosolids Generated	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average	
Biosolids Total Solids (%)	28	28	28	28	29	28	29	29	28	28	28	28	28	
Management Locations	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total	
Tule Ranch AZ - land application (wet tons)	3,544	3,860	4,200	3,787	3,318	3,277	3,601	3,655	3,485	3,450	3,009	3,516	42,701	Wet Tons
Tule Ranch AZ - land application (dry metric tons)	900	980	1,067	972	873	832	947	961	885	876	764	893	10,950	
Liberty Compost CA (wet tons)	227	277	455	811	937	455	430	558	7,312	658	1,191	785	14,097	
Liberty Compost CA (dry metric tons)	58	70	116	206	238	116	109	142	1,857	167	302	199	3,580	
Rialto Bioenergy Facility CA - heat drying (wet tons)	0	0	1,189	0	0	0	146	0	0	0	0	0	1,336	Dry Tons
Rialto Bioenergy Facility CA - heat drying (dry metric tons)	0	0	302	0	0	0	38	0	0	0	0	0	341	
Inland Empire Regional Composting (wet tons)	523	399	499	572	723	944	970	872	520	517	764	1,060	8,363	
Inland Empire Regional Composting (dry metric tons)	133	101	127	145	184	240	246	221	132	131	194	269	2,124	
Synagro - Nusery Products CA - compost (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro - Nusery Products CA - compost (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro - South Kern - compost (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro - South Kern - (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro- AZ Soils-compost (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Synagro - AZ Soils-compost (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Biosolids Total Wet Tons	4,295	4,535	6,343	5,170	4,978	4,676	5,147	5,085	11,317	4,625	4,964	5,361	66,496	
Total Dry Metric Tons	1,091	1,152	1,611	1,323	1,294	1,188	1,341	1,324	2,874	1,175	1,261	1,362	16,995	
Digester Cleanings	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total	
Digester(s)	Q	Q	C											
Digester Cleaning Total Solids Percent (average)	23	23	26											
Liberty Compost (compost) (wet tons)	270	1360	360	0	0	0	0	0	0	0	0	0	1,990	
Liberty Compost (compost) (dry metric tons)	56	284	85	0	0	0	0	0	0	0	0	0	425	
Digester Cleaning Total Wet Tons	270	1,360	360	0	0	0	0	0	0	0	0	0	1,990	
Total Dry Metric Tons	56	284	85	0	0	0	0	0	0	0	0	0	425	
Total Wet Tons (Biosolids plus Digester Cleanings)	4,564	5,895	6,703	5,170	4,978	4,676	5,147	5,085	11,317	4,625	4,964	5,361	68,487	
Total Dry Metric Tons (Biosolids plus Digester Cleanings)	1,147	1,436	1,696	1,323	1,294	1,188	1,341	1,324	2,874	1,175	1,261	1,362	17,420	



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, 2022

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): 01/04/22, 01/25/22

	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*	1.0	11	1.3	44	440	6.6	13	27	11	830	11,000	52,000	63,000	7.8	23	70
Plant 1 Avg	0.81	11	1.3	43	430	6.3	13	26	9.3	770	8,800	51,000	60,000		23	
Plant 2 Max/Min*	1.0	9.9	1.2	51	320	3.7	14	27	11	660	5,500	54,000	59,000	7.8	27	58
Plant 2 Avg	1.0	9.9	1.2	51	320	3.7	14	27	11	660	5,500	54,000	59,000		27	
Table 1	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3	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	24	25	23	23	23	23	Out of Service	Out of Service
Minimum Temperature (Min 95 °F)	99	99	99	100	100	100	99	99	100	Out of Service	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)**	24	Out of Service	Out of Service	24	Out of Service	24	24	Out of Service	Out of Service	24	24	24	Out of Service	25	28	25	28	24
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	98	Out of Service	100	99	Out of Service	Out of Service	100	98	100	Out of Service	98	99	100	100	99

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

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



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: January 1- 31, 2022

Certifications:

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

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

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

Jim Spears
Operations Manager

jspears@ocsan.gov
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Lan C. Wiborg
Environmental Services Director

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Cindy Vellucci (Feb 13, 2023 09:11 PST)

Cindy Vellucci

Rachel Van Exel

Peter Park (Feb 13, 2023 10:11 PST)

Peter Park

Tom Meregillano



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, 2022

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): 02/01/22, 02/08/22

	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	1.2	46	510	6.3	17	27	7.2	800	10,000	53,000	63,000	7.8	24	66
Plant 1 Avg	0.49	9.2 DNQ	1.0	39	430	4.9	13	23	6.7	680	7,600	49,000	56,000		28	
Plant 2 Max/Min*	0.54	14	1.3	54	370	3.6	19	29	9.8	730	6,200	48,000	54,000	7.5	26	64
Plant 2 Avg	0.43	14	1.3	52	350	3.3	18	28	9.8	700	5,200	45,000	50,000		27	
Table 1	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3	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	23	23	23	23	Out of Service	Out of Service
Minimum Temperature (Min 95 °F)	98	100	99	98	98	100	99	99	100	Out of Service	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)**	26	Out of Service	Out of Service	26	Out of Service	26	26	Out of Service	Out of Service	25	25	25	Out of Service	26	Out of Service	26	26	26
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	98	Out of Service	101	98	Out of Service	Out of Service	101	100	101	Out of Service	100	Out of Service	102	102	101

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

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



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: February 1- 28, 2022

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 person 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. A determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.*

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

Jim Spears
Operations Manager

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Cindy Vellucci

Rachel Van Exel

Peter Park

Tom Meregillano



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, 2022

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): 03/01/22

	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*	0.60	8.1 DNQ	1.4	40	510	6.4	14	27	7.7	810	7,700	64,000	72,000	8.1	24	55
Plant 1 Avg	0.60	8.1 DNQ	1.4	40	510	6.4	14	27	7.7	810	7,700	64,000	72,000		24	
Plant 2 Max/Min*	0.47	9.8	1.1	47	370	7.4	16	30	8.6	700	4,700	54,000	59,000	8.0	26	65
Plant 2 Avg	0.47	9.8	1.1	47	370	7.4	16	30	8.6	700	4,700	54,000	59,000		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)**	24	24	24	25	25	24	24	23	24	Out of Service	Out of Service
Minimum Temperature (Min 95 °F)	99	99	99	100	100	99	99	99	100	Out of Service	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)**	24	Out of Service	Out of Service	23	Out of Service	24	24	Out of Service	Out of Service	23	23	24	Out of Service	24	Out of Service	24	24	24
Minimum Temperature (Min 95 °F)	99	Out of Service	Out of Service	99	Out of Service	102	99	Out of Service	Out of Service	101	101	101	Out of Service	102	Out of Service	102	102	100

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

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

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
 Monitoring Period: March 1- 31, 2022

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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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 (Jun 9, 2022 13:27 PDT)

Lan Wiborg

Jim Spears
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Cindy Vellucci

Cindy Vellucci (Jun 3, 2022 16:07 PDT)

DB

Deirdre Bingman (Jun 3, 2022 08:31 PDT)

Rachel Van Exel

Reza Sobhani

Reza Sobhani (Jun 1, 2022 09:00 PDT)

Cindy Vellucci

Deirdre Bingman

Rachel Van Exel

Reza Sobhani



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, 2022

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): 04/05/22, 04/12/22

	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	8.4 DNQ	1.8	41	460	5.9	17	29	9.3	800	8,000	77,000	84,000	7.8	24	60
Plant 1 Avg	0.55	8.2 DNQ	1.5	40	460	5.5	17	29	8.7	800	7,600	71,000	78,000		24	
Plant 2 Max/Min*	0.49	12	1.4	42	360	3.6	21	28	9.1	680	4,900	58,000	62,000	7.8	26	68
Plant 2 Avg	0.45	12	1.4	41	360	2.7	21	28	9.1	670	4,500	57,000	62,000		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)**	23	23	23	24	24	23	23	22	23	Out of Service	Out of Service
Minimum Temperature (Min 95 °F)	99	100	100	100	99	99	99	99	100	Out of Service	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)**	22	Out of Service	Out of Service	22	Out of Service	22	22	Out of Service	Out of Service	22	22	23	Out of Service	22	Out of Service	22	22	22
Minimum Temperature (Min 95 °F)	99	Out of Service	Out of Service	100	Out of Service	102	99	Out of Service	Out of Service	101	100	100	Out of Service	100	Out of Service	102	101	100

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

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



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: April 1- 30, 2022

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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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 (Jun 28, 2022 12:39 PDT)

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Cindy Vellucci (Jun 22, 2022 10:26 PDT)

Cindy Vellucci

Deirdre Bingman (Jun 22, 2022 10:26 PDT)

Deirdre Bingman

Rachel Van Exel

Reza Sobhani (Jun 22, 2022 10:26 PDT)

Reza Sobhani



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, 2022

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

Sampling date(s): 05/03/22, 05/10/22

	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*	0.85	8.4 DNQ	1.1	34	440	7.7	14	28	8.1	770	10,000	91,000	100,000	7.8	25	57
Plant 1 Avg	0.67	8.3 DNQ	1.0	34	440	7.7	14	27	7.5	750	9,600	79,000	89,000		25	
Plant 2 Max/Min*	0.39	12	1.4	42	350	5.3	20	26	9.9	670	6,000	94,000	99,000	7.8	28	60
Plant 2 Avg	0.39	12	1.3	41	350	4.6	19	26	8.9	660	5,700	74,000	80,000		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	25	25	25	24	24	23	24	Out of Service	Out of Service
Minimum Temperature (Min 95 °F)	97	100	100	100	100	99	99	97	100	Out of Service	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)**	24	Out of Service	Out of Service	23	Out of Service	24	24	Out of Service	Out of Service	23	23	24	Out of Service	24	Out of Service	24	24	24
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	99	Out of Service	102	98	Out of Service	Out of Service	100	99	99	Out of Service	101	Out of Service	100	102	102

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.

*** Ammonia was performed under a CA-certified lab and not AZ-certified lab.



Biosolids Monthly Compliance Report

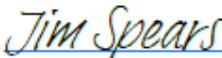
Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: May 1- 31, 2022

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 \(Aug 12, 2022 05:58 PDT\)](#)

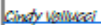
Jim Spears
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Lan C. Wiborg
Environmental Services Director


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[Cindy Vellucci \(Aug 11, 2022 10:35 PDT\)](#)

Cindy Vellucci



Rachel Van Exel


[Reza Sobhani \(Aug 11, 2022 10:38 PDT\)](#)

Reza Sobhani


[Tom Meregillano \(Aug 11, 2022 10:40 PDT\)](#)

Tom Meregillano



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
 Monitoring Period: June 1- 30, 2022

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): 06/07/22, 06/14/22

	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*	0.73	7.3 DNQ	1.2	36	480	6.0	16	31	7.7	810	7,300	66,000	73,000	7.3	25	66
Plant 1 Avg	0.65	7.3 DNQ	1.2	34	470	5.3	16	30	7.1	770	6,900	60,000	67,000		25	
Plant 2 Max/Min*	0.49	12	1.4	42	390	4.6	20	25	8.8	710	3,900	66,000	70,000	7.5	28	57
Plant 2 Avg	0.44	11	1.4	41	370	3.8	19	25	8.7	670	3,700	51,000	55,000		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)**	23	24	24	24	24	23	23	23	23	134	Out of Service
Minimum Temperature (Min 95 °F)	99	100	100	100	99	99	99	100	100	100	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)**	24	Out of Service	Out of Service	25	Out of Service	24	24	Out of Service	Out of Service	25	25	24	Out of Service	24	Out of Service	24	24	24
Minimum Temperature (Min 95 °F)	101	Out of Service	Out of Service	101	Out of Service	101	101	Out of Service	Out of Service	101	101	101	Out of Service	102	Out of Service	101	102	103

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: June 1- 30, 2022

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 (Sep 20, 2022 06:12 PDT)

Jim Spears
Operations Manager

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Lan C. Wiborg
Environmental Services Director

lwiborg@ocsan.gov
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Cindy Vellucci (Sep 18, 2022 12:15 PDT)

Cindy Vellucci

Rachel Van Exel

Peter Park (Sep 16, 2022 14:30 PDT)

Peter Park

Tom Meregillano (Sep 16, 2022 13:16 PDT)

Tom Meregillano



Biosolids Monthly Compliance Report

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

Monitoring Period: July 1- 31, 2022

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

Sampling date(s): 07/12/22, 07/19/22

	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	8.4 DNQ	0.95	37	450	4.9	15	28	8.2	840	6,600	58,000	64,000	7.5	24	60
Plant 1 Avg	0.67	8.3 DNQ	0.85	35	450	4.4	15	28	7.9	790	6,100	57,000	63,000		25	
Plant 2 Max/Min*	0.71	11	0.60	42	350	1.4 DNQ	17	27	9.5	700	4,200	50,000	53,000	7.8	28	64
Plant 2 Avg	0.69	9.4 DNQ	0.56	39	310	1.0 DNQ	15	24	8.1	620	3,900	50,000	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	23	23	23	23	26	Out of Service
Minimum Temperature (Min 95 °F)	98	99	99	99	99	99	99	100	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)**	24	Out of Service	Out of Service	24	Out of Service	24	24	Out of Service	Out of Service	23	24	24	Out of Service	24	Out of Service	24	23	24
Minimum Temperature (Min 95 °F)	100	Out of Service	Out of Service	100	Out of Service	100	101	Out of Service	Out of Service	101	101	101	Out of Service	101	Out of Service	100	101	101

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).



Biosolids Monthly Compliance Report

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

Monitoring Period: July 1- 31, 2022

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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(714) 593-7081

Lan C. Wiborg
Environmental Services Director

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(714) 593-7540

Cindy Vellucci (Nov 22, 2022 10:09 PST)

Cindy Vellucci

Rachel Van Exel

Peter Park (Dec 1, 2022 15:41 PST)

Peter Park

Tom Meregillano (Dec 5, 2022 09:38 PST)

Tom Meregillano



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, 2022

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

Sampling date(s): 08/02/22, 08/09/22

	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*	0.69	8.4 DNQ	0.81	37	490	2.8	17	31	8.1	850	6,400	54,000	60,000	7.4	25	60
Plant 1 Avg	0.66	8.1 DNQ	0.72	37	470	2.6	17	30	7.8	830	6,300	53,000	59,000		25	
Plant 2 Max/Min*	0.54	14	1.8	54	400	0.87 DNQ	22	30	9.8	800	4,000	54,000	58,000	7.4	28	61
Plant 2 Avg	0.49	11 DNQ	1.8	50	380	0.77 DNQ	20	30	9.2	770	3,800	45,000	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

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	29	29	27	27	27	28	27	Out of Service
Minimum Temperature (Min 95 °F)	98	99	99	100	99	99	100	99	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)**	23	Out of Service	Out of Service	24	Out of Service	25	25	Out of Service	Out of Service	24	24	25	Out of Service	25	Out of Service	25	24	25
Minimum Temperature (Min 95 °F)	100	Out of Service	Out of Service	101	Out of Service	101	101	Out of Service	Out of Service	102	102	102	Out of Service	102	Out of Service	100	101	100

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

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



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: August 1- 31, 2022

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

Cindy Vellucci

Rachel Van Exel

Peter Park

Tom Meregillano



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, 2022

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): 09/13/22, 09/20/22, 09/29/22

	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*	0.89	8.4 DNQ	1.4	37	520	3.3	17	31	10	880	7,600	36,000	44,000	7.6	24	49
Plant 1 Avg	0.76	7.8 DNQ	1.4	37	500	3.0	17	31	9.7	820	7,600	33,000	41,000		24	
Plant 2 Max/Min*	0.39	9.3	1.5	54	350	3.5	17	24	9.7	720	5,800	29,000	33,000	7.6	28	63
Plant 2 Avg	0.38	8.8 DNQ	1.3	51	350	2.1 DNQ	17	24	8.9	670	5,100	26,000	31,000		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)**	27	27	27	28	28	26	26	26	26	28	Out of Service
Minimum Temperature (Min 95 °F)	99	99	99	99	99	99	100	99	100	99	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)**	27	Out of Service	Out of Service	27	Out of Service	27	27	Out of Service	Out of Service	27	27	27	Out of Service	26	Out of Service	27	27	27
Minimum Temperature (Min 95 °F)	100	Out of Service	Out of Service	102	Out of Service	101	102	Out of Service	Out of Service	103	103	103	Out of Service	101	Out of Service	102	102	100

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

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

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach.
Monitoring Period: September 1- 30, 2022

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
Environmental Services Director


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Cindy Vellucci (Dec 21, 2022 16:06 PST)


Cindy Vellucci



Rachel Van Exel


Peter Park (Dec 21, 2022 16:46 PST)

Peter Park


Tom Meregillano (Jan 4, 2023 14:52 PST)

Tom Meregillano



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, 2022

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): 10/04/22, 10/11/22, 10/26/22

	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*	0.85	12	1.6	39	500	4.6	18	36	8.3	810	7,700	22,000	28,000	7.7	24	61
Plant 1 Avg	0.74	10 DNQ	1.4	38	500	3.3	18	33	7.4	800	7,000	21,000	28,000		24	
Plant 2 Max/Min*	0.43	16	1.2	55	400	2.2	20	25	8.9	730	4,700	49,000	54,000	7.7	26	71
Plant 2 Avg	0.40	14	1.2	51	380	1.4 DNQ	18	24	8.6	700	4,400	46,000	51,000		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)**	27	27	27	27	27	26	26	26	26	28	Out of Service
Minimum Temperature (Min 95 °F)	98	99	98	99	98	99	100	99	100	99	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)**	31	Out of Service	Out of Service	29	Out of Service	29	29	Out of Service	Out of Service	29	29	29	Out of Service	29	Out of Service	28	29	29
Minimum Temperature (Min 95 °F)	100	Out of Service	Out of Service	101	Out of Service	101	101	Out of Service	Out of Service	101	101	102	Out of Service	100	Out of Service	102	100	100

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

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



Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: October 1- 31, 2022

Certifications:

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

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

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

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Cindy Vellucci

Rachel Van Exel

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Tom Meregillano



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
 Monitoring Period: November 1- 30, 2022

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

Sampling date(s): 11/01/22, 11/09/22

	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*	0.90	9.8	1.5	38	510	3.9	16	31	9.0	780	6,300	53,000	59,000	8.4	26	43
Plant 1 Avg	0.72	9.2 DNQ	1.5	37	490	2.7 DNQ	16	30	8.8	770	6,300	49,000	55,000		26	
Plant 2 Max/Min*	0.82	10	1.3	49	370	4.9	16	24	9.0	670	4,900	60,000	65,000	8.2	23	51
Plant 2 Avg	0.67	9.8 DNQ	1.3	44	350	2.8 DNQ	15	23	8.8	640	4,800	54,000	59,000		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

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)**	25	25	25	26	26	25	Out of Service	24	24	26	Out of Service
Minimum Temperature (Min 95 °F)	97	99	99	99	99	99	Out of Service	99	100	97	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)**	27	Out of Service	Out of Service	27	Out of Service	27	27	Out of Service	Out of Service	27	27	27	Out of Service	27	Out of Service	27	27	27
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	98	Out of Service	100	97	Out of Service	Out of Service	99	99	99	Out of Service	99	Out of Service	99	101	100

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

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



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: November 1- 30, 2022

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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Cindy Vellucci (Jan 20, 2023 13:18 PST)

Cindy Vellucci

Rachel Van Exel

Peter Park (Jan 23, 2023 14:55 PST)

Peter Park

Tom Meregillano (Jan 24, 2023 07:44 PST)

Tom Meregillano



Biosolids Monthly Compliance Report

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

Monitoring Period: December 1- 31, 2022

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): 12/06/22, 12/13/22

	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*	0.60	9.7 DNQ	1.3	38	520	5.2	16	27	9.2	770	9,700	67,000	77,000	7.0	25	60
Plant 1 Avg	0.58	9.1 DNQ	1.3	38	500	3.7	15	27	8.3	770	8,100	61,000	69,000		25	
Plant 2 Max/Min*	0.67	13	1.2	48	370	2.6	18	24	9.3	700	14,000	44,000	49,000	6.9	27	66
Plant 2 Avg	0.58	13	1.1	47	360	1.6 DNQ	16	23	9.1	690	9,700	39,000	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

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	23	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	99	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)**	25	Out of Service	Out of Service	23	Out of Service	23	23	Out of Service	Out of Service	23	23	24	Out of Service	26	Out of Service	25	24	23
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	98	Out of Service	99	97	Out of Service	Out of Service	99	98	98	Out of Service	99	Out of Service	98	100	99

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

* Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

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



Biosolids Monthly Compliance Report

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

Monitoring Period: December 1- 31, 2022

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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Cindy Vellucci (Jan 26, 2023 12:24 PST)

Cindy Vellucci

Rachel Van Exel

Peter Park (Jan 26, 2023 16:00 PST)

Peter Park

Tom Meregillano

APPENDIX B - Pretreatment Program Annual Report



**OC San's Resource Protection Division, Pretreatment Program's
Annual Report, FY 2021-2022, Solids Management Program, Chapter 8**

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 2022. 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 2021/22, OC San biosolids met EQ limits for all the regulated parameters as shown in Table 8.1.

Metal	FY	EQ Limit	Plant 1			Plant 2		
			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
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
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
	2015-16		31	89	46	28	60	46
	2016-17		30	89	49	29	67	46

Table 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2021/22, 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
	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
Copper	2012-13	1,500	480	640	540	500	640	540
	2013-14		460	540	510	470	540	500
	2014-15		320	570	470	320	560	470
	2015-16		380	560	460	340	570	480
	2016-17		400	560	460	340	570	490
	2017-18		320	500	420	380	590	460
	2018-19		355	600	470	335	665	510
	2019-20		440	600	530	410	590	490
	2020-21		470	660	530	420	520	460
	2021-22		425	550	490	320	440	370
Lead	2012-13	300	7.5	19	15	7.5	17	14
	2013-14*		13	18	14	13	17	14
	2014-15*		8.7	15	13	9.0	17	13
	2015-16*		8.3	20	12	8.0	17	13
	2016-17*		7.9	20	11	7.5	17	12
	2017-18*		8.9	19	12	10	16	13
	2018-19		9.9	15	12	10	15	13
	2019-20		9.8	14	12	14	24	17
	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
Mercury	2012-13	17	0.7	4.1	1.5	0.8	3.8	1.4
	2013-14		0.8	1.2	1.0	0.7	2.8	1.4
	2014-15		1.0	1.5	1.1	1.0	1.5	1.0
	2015-16		0.6	1.7	0.9	0.6	1.2	1.0
	2016-17		0.5	1.7	0.9	0.7	1.2	0.9
	2017-18		0.7	1.1	0.9	0.3	1.1	0.8
	2018-19		0.6	1.1	0.9	0.6	1.0	0.8
	2019-20		0.5	1.2	0.8	0.5	0.8	0.6
	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
Molybdenum	2012-13	**	9.8	20	14	12	20	15
	2013-14		12	18	15	14	18	15
	2014-15		9.4	18	15	12	20	16
	2015-16*		11	18	15	11	23	16
	2016-17		12	18	15	11	23	16
	2017-18*		10	16	14	13	18	15
	2018-19		13	20	16	15	22	18
	2019-20		14	22	18	14	24	18
	2020-21		15	21	18	17	23	20
	2021-22		13	20	16	14	21	18
Nickel	2012-13	420	34	48	40	23	41	30
	2013-14		36	55	43	28	56	37
	2014-15		26	47	37	26	41	34

Table 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2021/22, 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
	2015-16*		29	45	38	20	41	33
	2016-17		25	45	36	21	41	32
	2017-18		28	37	32	31	39	34
	2018-19		23	44	33	29	44	37
	2019-20		27	41	35	26	46	35
	2020-21		28	46	36	26	33	29
	2021-22		23	33	28	25	30	26
Selenium	2012-13	100	0	20	9.0	0	20	8.0
	2013-14*		3.5	13	7.9	4.2	13	8.3
	2014-15*		4.1	13	7.1	4.5	15	7.3
	2015-16*		4.4	11	8.1	3.7	10	7.6
	2016-17*		4.1	10	8.4	4.8	10	8.0
	2017-18*		3.0	7.8	4.9	2.7	8.0	4.9
	2018-19*		2.5	48	6.6	2.3	2.9	2.7
	2019-20*		0.9	12	3.7	0.9	12	3.5
	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
Silver	2012-13	**	6.2	14	8.6	6.4	13	8.6
	2013-14*		2.9	7.6	5.3	3.6	9.1	6.3
	2014-15*		3.3	7.8	5.8	3.4	8.6	6.5
	2015-16*		2.4	7.7	5.6	2.5	7.9	5.6
	2016-17*		2.7	5.6	4.4	2.5	6.8	4.9
	2017-18*		3.2	5.1	3.9	3.7	5.0	4.2
	2018-19*		2.9	5.1	4.0	3.5	5.8	4.3
	2019-20*		3.0	5.0	4.0	2.7	5.8	4.0
	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
Zinc	2012-13	2,800	640	860	720	680	880	770
	2013-14		590	730	670	620	750	700
	2014-15		420	720	620	470	740	670
	2015-16		500	770	620	520	890	730
	2016-17		550	770	610	520	890	740
	2017-18		470	680	600	590	910	720
	2018-19		520	810	600	500	790	720
	2019-20		640	810	760	590	890	720
	2020-21		710	875	800	680	780	740
	2021-22		675	835	790	655	745	690

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).

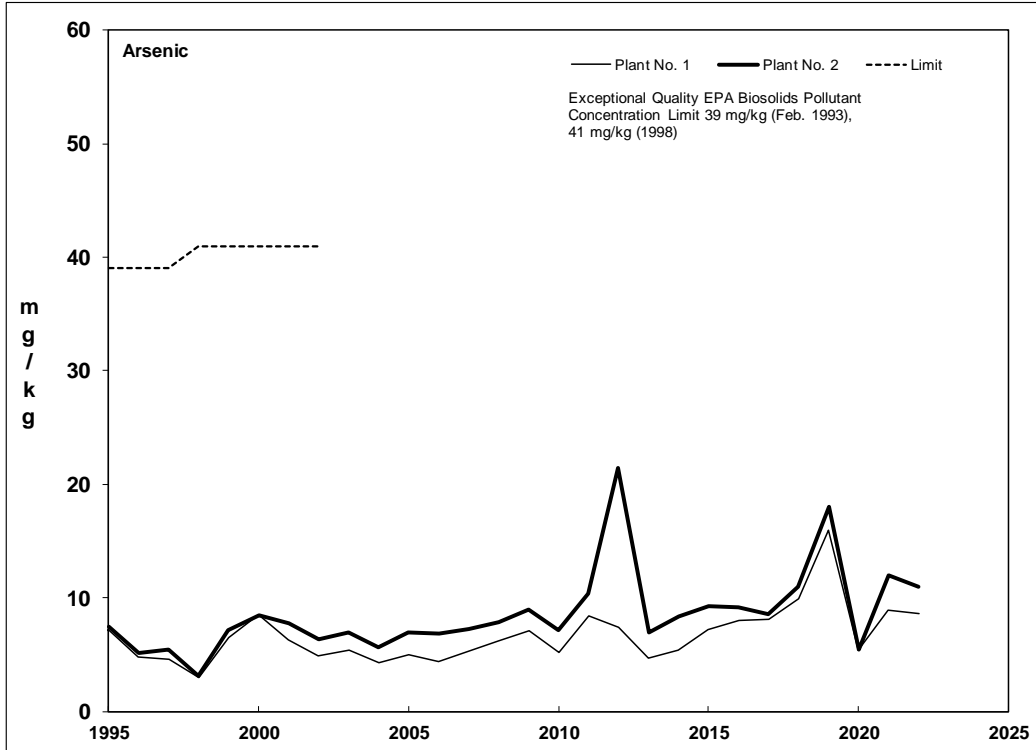


Figure 8-1 Trends in Concentrations of Arsenic in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

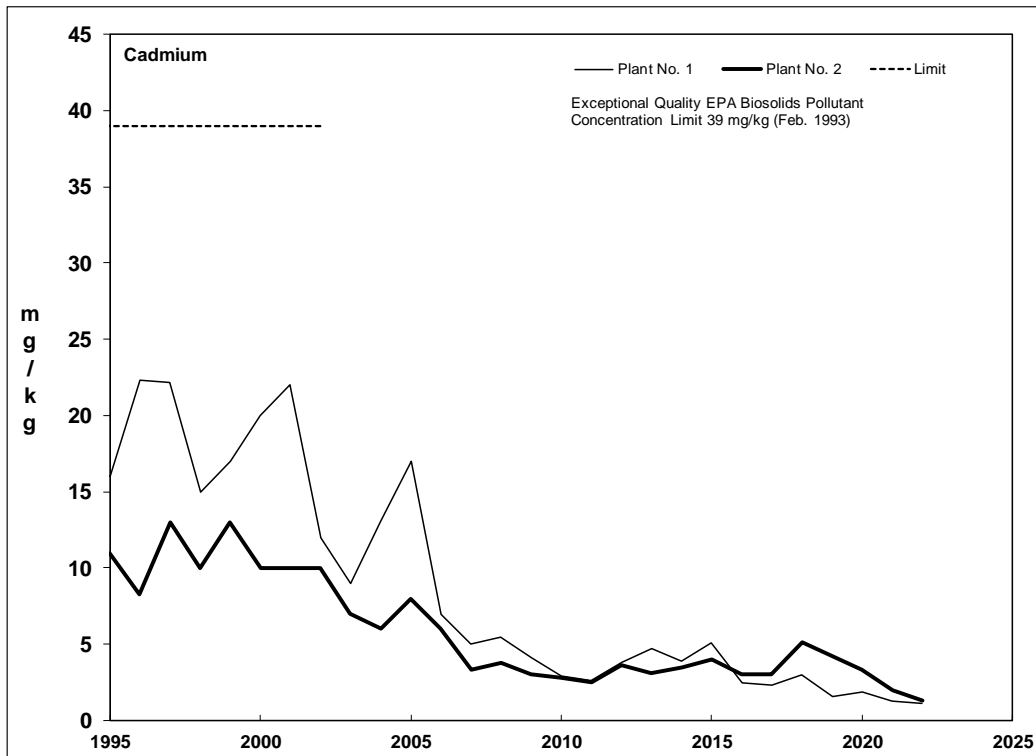


Figure 8-2 Trends in Concentrations of Cadmium in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

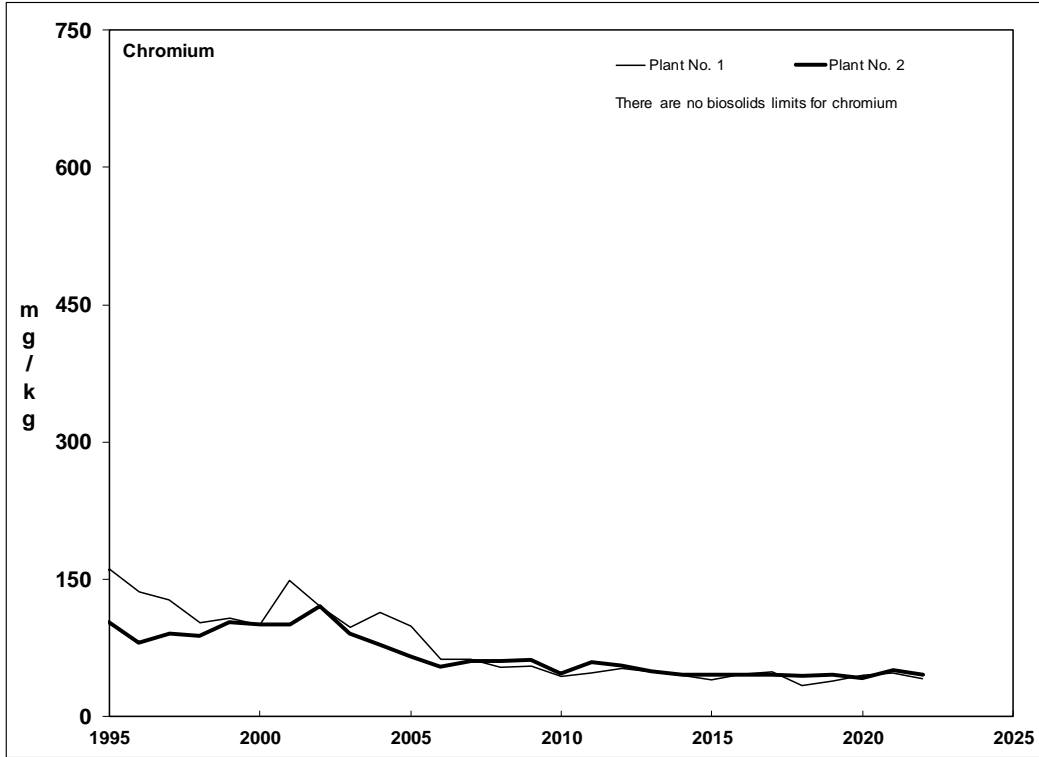


Figure 8-3 Trends in Concentrations of Chromium in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

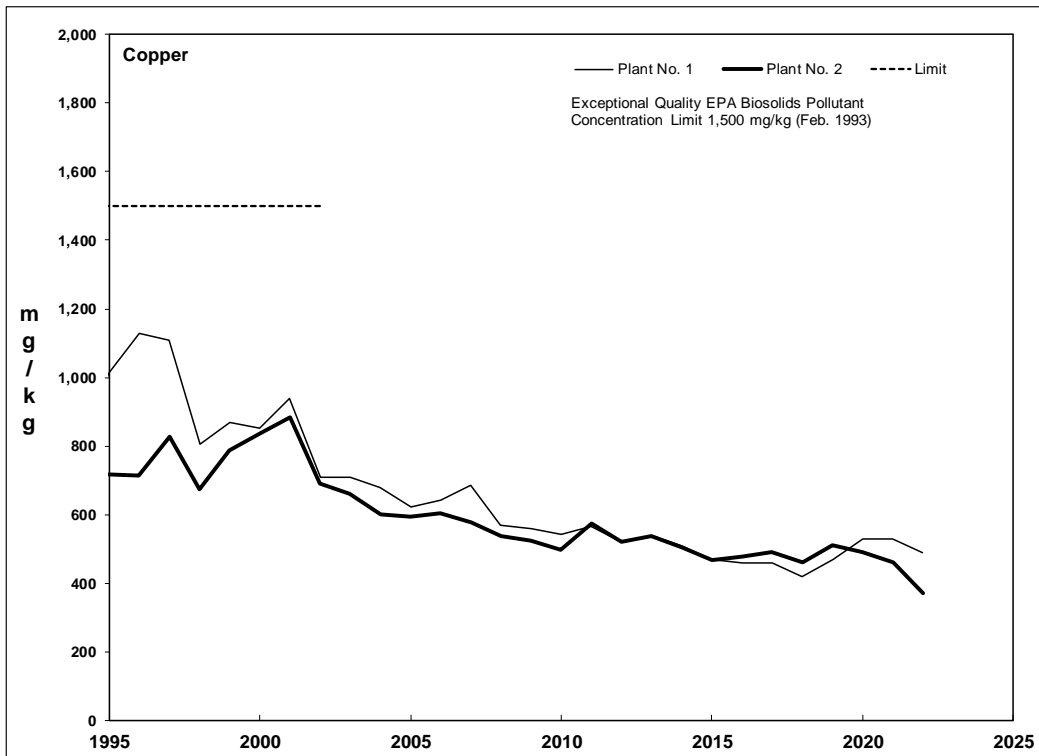


Figure 8-4 Trends in Concentrations of Copper in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

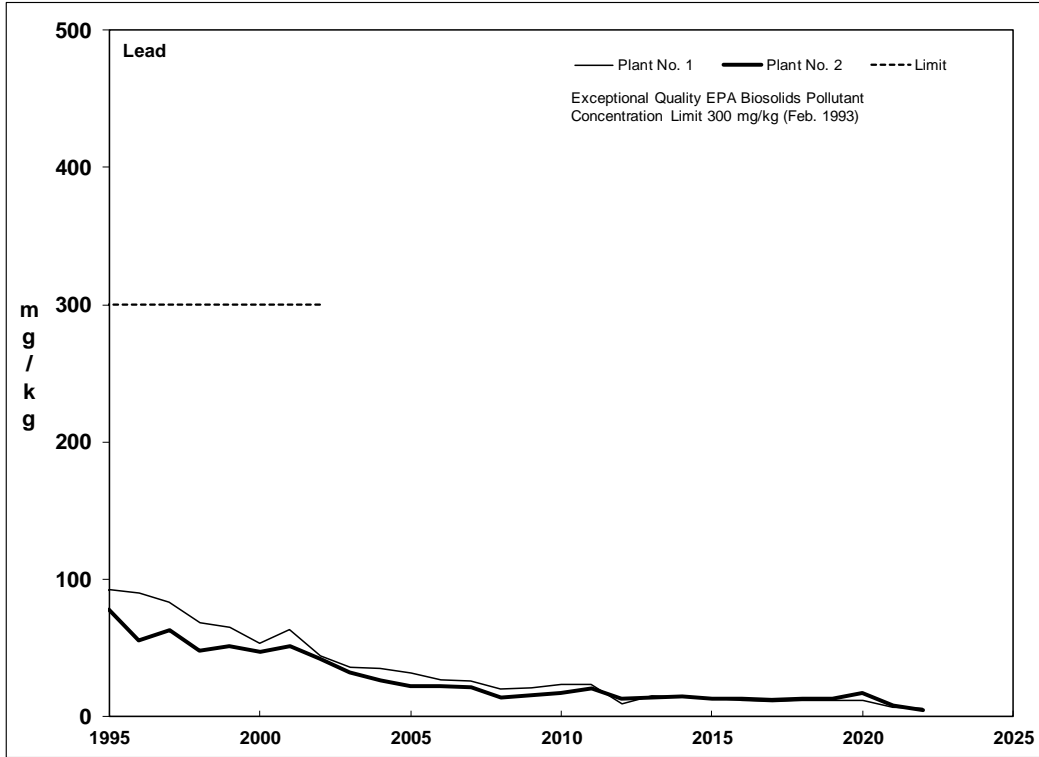


Figure 8-5 Trends in Concentrations of Lead in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

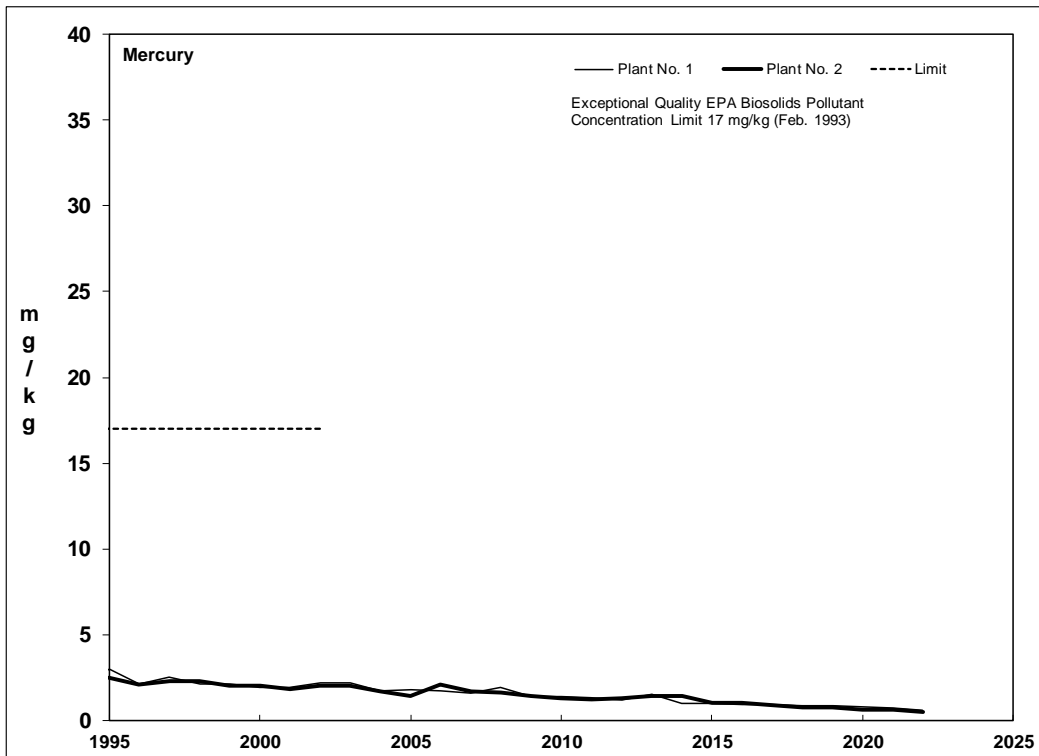


Figure 8-6 Trends in Concentrations of Mercury in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

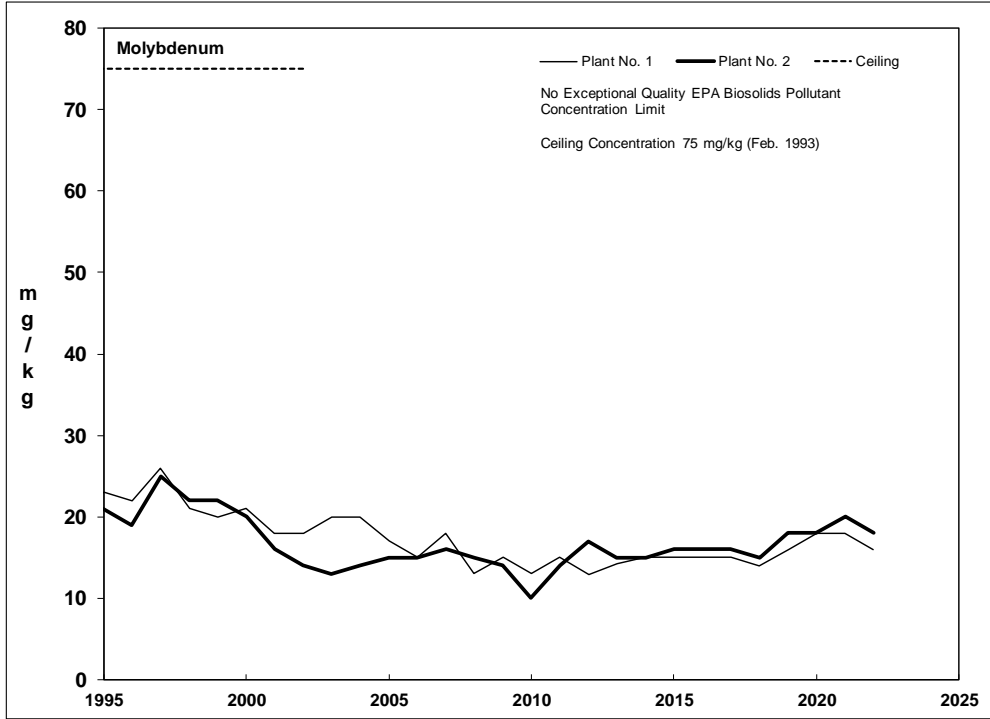


Figure 8-7 Trends in Concentrations of Molybdenum in Biosolids, Fiscal Years 1994/95-2021/22
 Orange County Sanitation District, Resource Protection Division

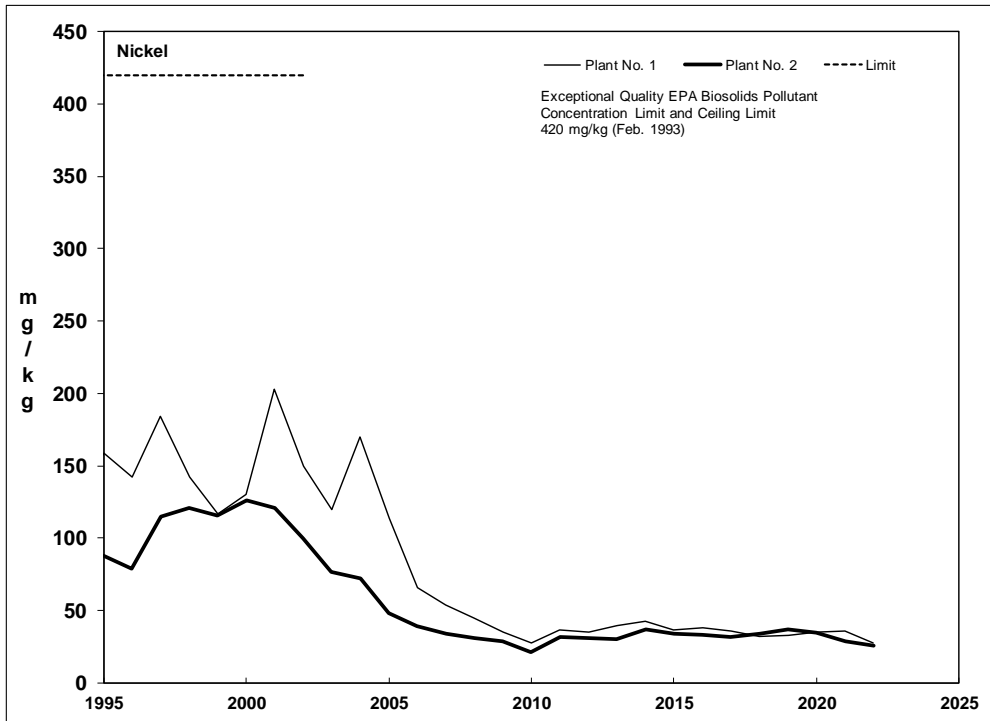


Figure 8-8 Trends in Concentrations of Nickel in Biosolids, Fiscal Years 1994/95-2021/22
 Orange County Sanitation District, Resource Protection Division

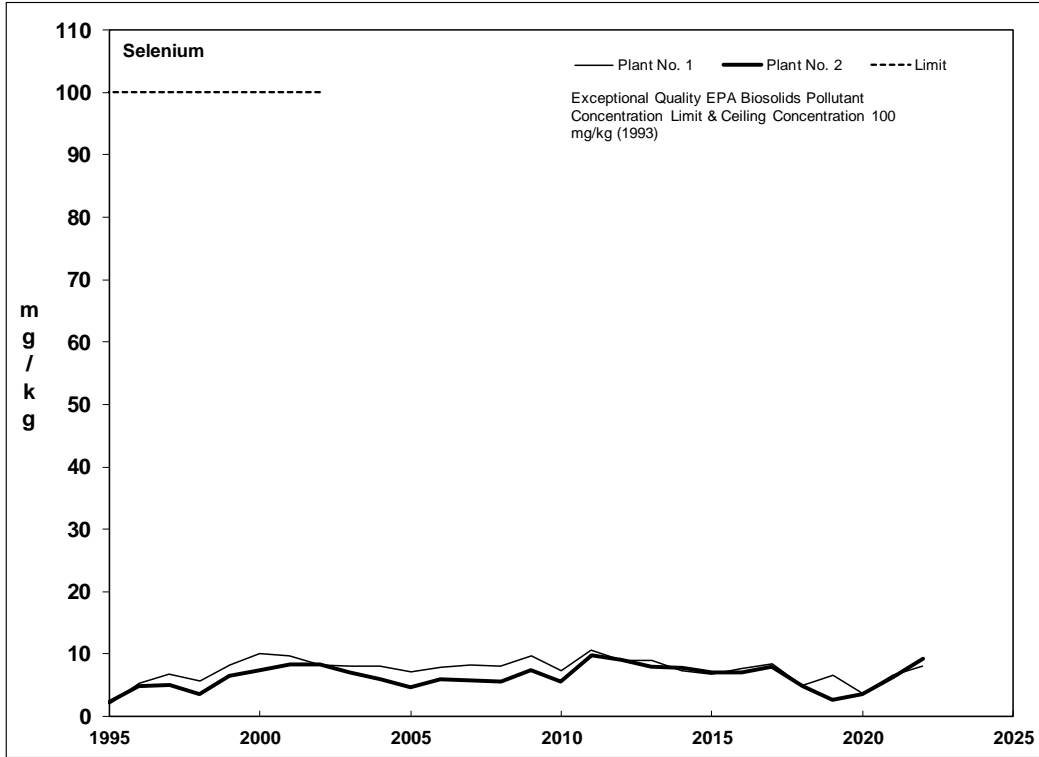


Figure 8-9 Trends in Concentrations of Selenium in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

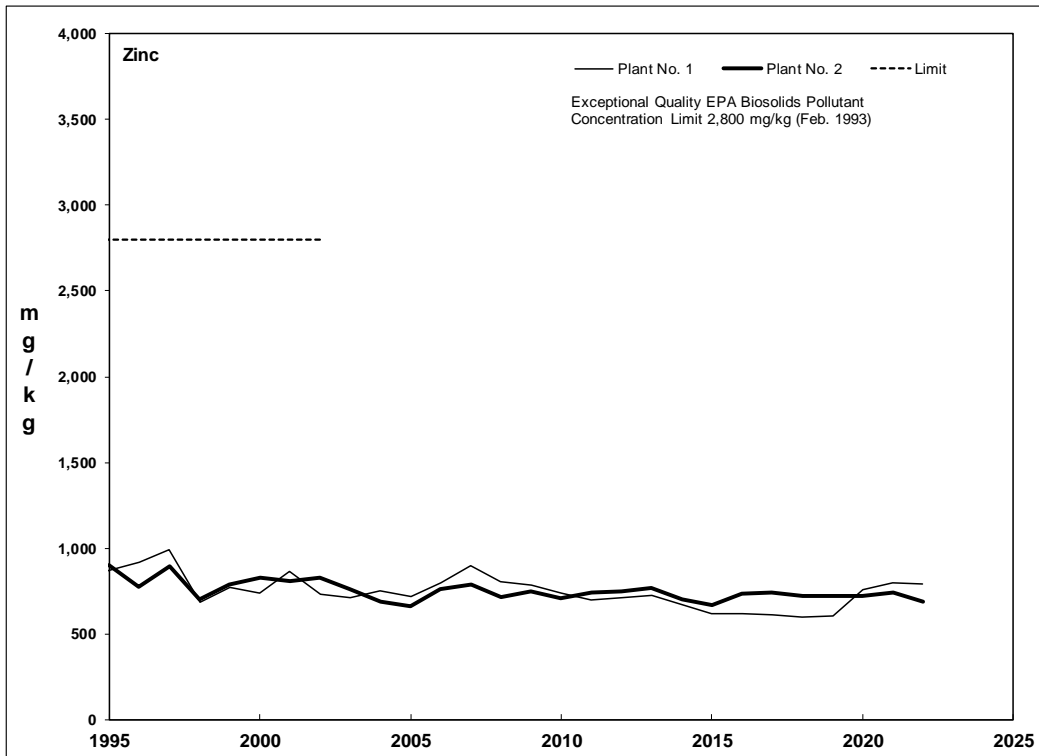


Figure 8-10 Trends in Concentrations of Zinc in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

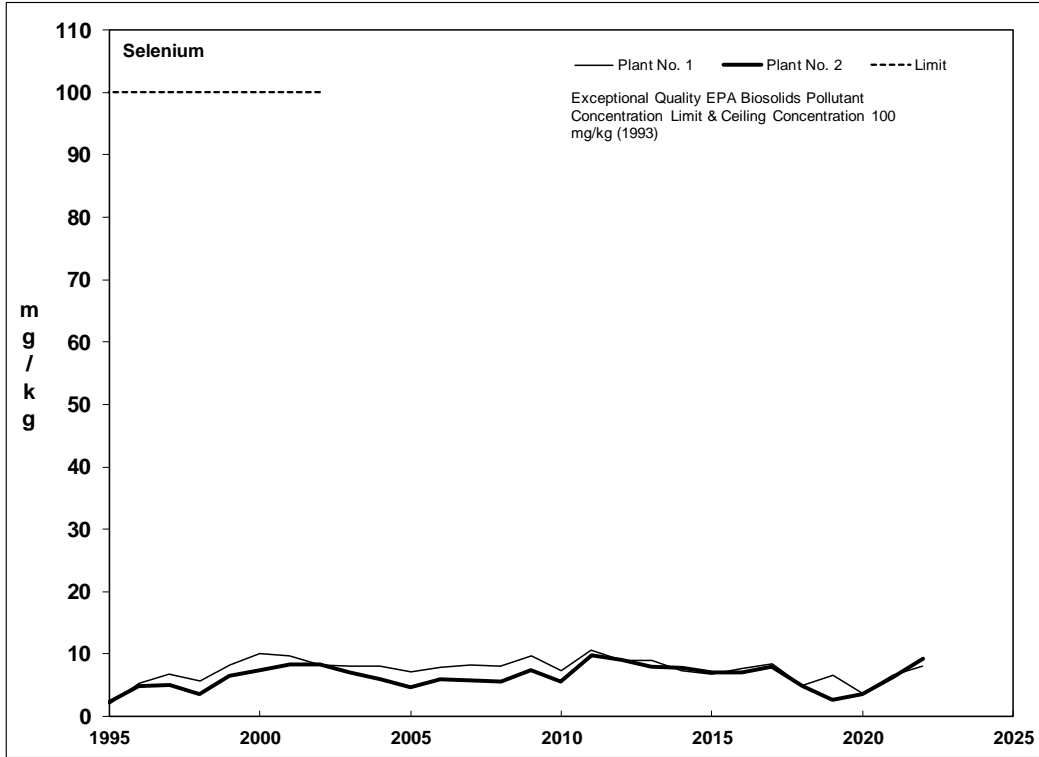


Figure 8-9 Trends in Concentrations of Selenium in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

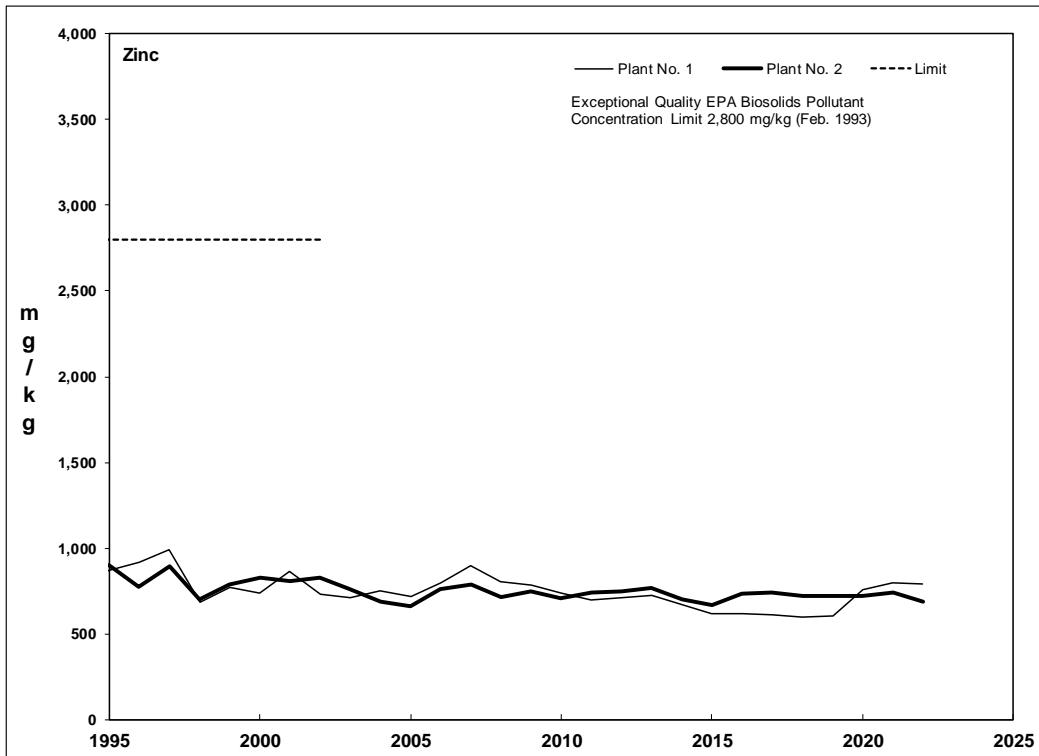


Figure 8-10 Trends in Concentrations of Zinc in Biosolids, Fiscal Years 1994/95-2021/22
Orange County Sanitation District, Resource Protection Division

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 NH3 G	SM 4500 NH3 G	mg/kg	Plant 1 Dewatering Cake	01/04/2022	2700	66	100					
					01/25/2022	1500	--	100					
					02/01/2022	1700	38	50					
					02/08/2022	2400	38	50					
					03/01/2022	1800	38	50					
					03/08/2022	1700	38	50					
					04/05/2022	1700	38	50					
					04/12/2022	1900	38	50					
					05/03/2022	2600	100	500					
					05/10/2022	2300	180	500					
					06/07/2022	1800	38	50					
					06/14/2022	1600	38	50					
					07/12/2022	1600	38	50					
					07/19/2022	1400	38	50					
					08/02/2022	1600	38	50					
					08/09/2022	1500	38	50					
					09/13/2022	1800	38	50					
					09/20/2022	1900	38	50					
					10/04/2022	1900	38	50					
					10/11/2022	1500	38	50					
					11/01/2022	1600	38	50					
					11/09/2022	1600	38	50					
					12/06/2022	2400	75	210					
					12/13/2022	1600	90	250					
					Annual Mean					1800			
			Annual Max					2700					
						mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	11000	280	420		
								01/25/2022	6600	--	440		
								02/01/2022	5200	120	150		
								02/08/2022	10000	160	210		
								03/01/2022	7700	160	210		
								04/05/2022	7100	160	210		
								04/12/2022	8000	160	210		
								05/03/2022	10000	400	2000		
								05/10/2022	9200	720	2000		
								06/07/2022	7300	150	200		
								06/14/2022	6500	150	200		
								07/12/2022	6600	160	210		
								07/19/2022	5600	150	200		
								08/02/2022	6400	150	200		
								08/09/2022	6100	150	200		
								09/13/2022	7600	160	210		
								09/20/2022	7600	150	200		
								10/04/2022	7700	150	200		
								10/11/2022	6300	160	210		
					11/01/2022			6300	150	200			
					11/09/2022			6300	150	200			
					12/06/2022			9700	300	850			
					12/13/2022			6400	360	1000			
					Annual Mean			7400					
					Annual Max			11000					
			mg/kg	Plant 2 Dewatering Cake	01/04/2022	2700	66	100					
					01/25/2022	1500	--	100					
					02/01/2022	1200	38	50					
					02/08/2022	1600	38	50					
					03/01/2022	1200	38	50					
					03/08/2022	1200	38	50					
					04/05/2022	1100	38	50					
					04/12/2022	1300	38	50					
					05/03/2022	1700	100	500					
					Annual Mean	1300							
					Annual Max	1700							

Appendix C: Summary of Biosolids Monitoring Results

				05/10/2022	1500	180	500
				06/07/2022	1100	38	50
				06/14/2022	1000	38	50
				07/12/2022	1200	38	50
				07/19/2022	1000	38	50
				08/02/2022	1100	38	50
				08/09/2022	1000	38	50
				09/13/2022	1600	38	50
				09/20/2022	1200	38	50
				10/04/2022	1100	38	50
				10/11/2022	1200	38	50
				11/01/2022	1300	38	50
				11/09/2022	1100	38	50
				12/06/2022	3800	90	250
				12/13/2022	1500	90	250
				Annual Mean	1400		
				Annual Max	3800		
		mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	5500	--	370
				02/01/2022	4200	130	170
				02/08/2022	6200	150	190
				03/01/2022	4700	150	200
				04/05/2022	4000	140	180
				04/12/2022	4900	140	190
				05/03/2022	6000	350	1800
				05/10/2022	5300	640	1800
				06/07/2022	3900	130	180
				06/14/2022	3500	130	180
				07/12/2022	4200	130	180
				07/19/2022	3500	130	180
				08/02/2022	4000	140	180
				08/09/2022	3500	130	180
				09/13/2022	5800	140	180
				09/20/2022	4300	140	180
				10/04/2022	4000	140	180
				10/11/2022	4700	150	190
				11/01/2022	4900	140	190
				11/09/2022	4700	160	220
				12/06/2022	14000	330	930
				12/13/2022	5300	320	880
				Annual Mean	5000		
				Annual Max	14000		
Fluoride	EPA 300.0	mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	50	1.7	8.4
				07/12/2022	45	1.6	8.2
				Annual Mean	48		
				Annual Max	50		
	EPA 300.0	mg/kg dry weight	Plant 2 Dewatering Cake	07/12/2022	81	1.4	7.0
				Annual Mean	81		
Fluoride wet weight	EPA 300.0	mg/kg	Plant 1 Dewatering Cake	01/04/2022	12	0.40	2.0
				07/12/2022	11	0.40	2.0
				Annual Mean	12		
				Annual Max	12		
	EPA 300.0	mg/kg	Plant 2 Dewatering Cake	01/04/2022	32	0.40	2.0
				07/12/2022	23	0.40	2.0
Hexavalent Chromium	EPA 7196A	mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	ND	1.1	2.1
				07/12/2022	ND	1.2	3.3
				Annual Mean	<1.2		
				Annual Max	<1.2		
	EPA 7196A	mg/kg dry weight	Plant 2 Dewatering	07/12/2022	1.2 DNQ	1.0	2.8
				Annual Mean	1.2 DNQ		

Appendix C: Summary of Biosolids Monitoring Results

			Cake	Annual Max	1.2 DNQ			
Hexavalent Chromium wet weight	EPA 7196A	mg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	0.25	0.50	
				07/12/2022	ND	0.29	0.80	
				Annual Mean	<0.29			
				Annual Max	<0.29			
	EPA 7196A	mg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	0.25	0.50	
				07/12/2022	0.35 DNQ	0.29	0.80	
				Annual Mean	0.30 DNQ			
				Annual Max	0.35 DNQ			
Kjeldahl Nitrogen	EPA 351.2	mg/kg	Plant 1 Dewatering Cake	01/04/2022	15000	170	480	
				01/25/2022	13000	170	490	
				02/01/2022	16000	170	490	
				02/08/2022	15000	170	480	
				03/01/2022	17000	880	2500	
				03/08/2022	16000	880	2500	
				04/05/2022	20000	1000	2800	
				04/12/2022	17000	960	2700	
				05/03/2022	19000	920	2600	
				05/10/2022	26000	2000	5700	
				06/07/2022	18000	1700	4800	
				06/14/2022	15000	850	2400	
				07/12/2022	15000	180	500	
				07/19/2022	16000	170	490	
				08/02/2022	15000	190	540	
				08/09/2022	14000	200	570	
				09/13/2022	9000	180	510	
				09/20/2022	11000	180	510	
				10/04/2022	6700	180	510	
				10/11/2022	6600	180	510	
		11/01/2022	13000	180	510			
		11/09/2022	15000	180	500			
		12/06/2022	19000	710	1400			
		12/13/2022	15000	650	1300			
					Annual Mean	15000		
					Annual Max	26000		
			mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	63000	710	2000
		01/25/2022			57000	740	2100	
		02/01/2022			49000	520	1500	
		02/08/2022			63000	720	2000	
		03/01/2022			72000	3700	11000	
		04/05/2022			84000	4200	12000	
		04/12/2022			72000	4100	11000	
		05/03/2022			77000	3700	10000	
		05/10/2022			100000	8000	23000	
		06/07/2022			73000	6900	19000	
		06/14/2022			60000	3400	9700	
		07/12/2022			62000	740	2100	
		07/19/2022			64000	680	2000	
		08/02/2022			60000	760	2200	
08/09/2022	57000	810			2300			
09/13/2022	38000	760			2200			
09/20/2022	44000	720			2000			
10/04/2022	27000	730			2100			
10/11/2022	28000	750			2100			
11/01/2022	51000	710			2000			
11/09/2022	59000	710	2000					
12/06/2022	77000	2900	5600					
12/13/2022	60000	2600	5200					
			Annual Mean	61000				
			Annual Max	100000				
	EPA 351.2	mg/kg	Plant 2 Dewatering	01/04/2022	13000	170	480	
01/25/2022				16000	170	490		

Appendix C: Summary of Biosolids Monitoring Results

			Cake	02/01/2022	13000	180	500
				02/08/2022	14000	170	480
				03/01/2022	15000	880	2500
				03/08/2022	16000	880	2500
				04/05/2022	17000	1100	3000
				04/12/2022	16000	1100	3000
				05/03/2022	17000	880	2500
				05/10/2022	28000	2200	6300
				06/07/2022	20000	1700	5000
				06/14/2022	11000	860	2400
				07/12/2022	15000	170	490
				07/19/2022	15000	180	500
				08/02/2022	16000	180	500
				08/09/2022	11000	180	520
				09/13/2022	7600	180	500
				09/20/2022	9300	180	510
				10/04/2022	13000	180	510
				10/11/2022	14000	200	570
				11/01/2022	14000	180	520
				11/09/2022	15000	180	510
				12/06/2022	13000	920	1800
				12/13/2022	14000	700	1400
				Annual Mean	15000		
				Annual Max	28000		
		mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	59000	620	1800
				02/01/2022	45000	630	1700
				02/08/2022	54000	660	1900
				03/01/2022	59000	3400	9800
				04/05/2022	62000	4000	11000
				04/12/2022	61000	4200	11000
				05/03/2022	60000	3100	8900
				05/10/2022	99000	7800	22000
				06/07/2022	70000	6000	18000
				06/14/2022	39000	3000	8500
				07/12/2022	53000	600	1700
				07/19/2022	53000	640	1800
				08/02/2022	58000	650	1800
				08/09/2022	39000	640	1800
				09/13/2022	28000	650	1800
				09/20/2022	33000	650	1800
				10/04/2022	47000	650	1900
				10/11/2022	54000	780	2200
				11/01/2022	52000	670	1900
				11/09/2022	65000	780	2200
				12/06/2022	48000	3400	6700
				12/13/2022	49000	2500	4900
				Annual Mean	54000		
				Annual Max	99000		
Nitrate-N	EPA 300.0	mg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	0.51	1.0
				01/25/2022	ND	0.51	1.0
				02/01/2022	ND	0.51	1.0
				02/08/2022	ND	0.50	0.99
				03/01/2022	ND	0.50	0.99
				03/08/2022	ND	0.50	0.99
				04/05/2022	0.71 DNQ	0.50	0.99
				04/12/2022	ND	0.51	0.99
				05/03/2022	ND	0.51	0.99
				05/10/2022	ND	0.50	0.99
				06/07/2022	ND	0.51	1.0
				06/14/2022	ND	0.50	0.99
				07/12/2022	ND	0.51	1.0
				07/19/2022	ND	0.50	0.98

Appendix C: Summary of Biosolids Monitoring Results

			08/02/2022	ND	0.50	0.99
			08/09/2022	ND	0.51	1.0
			09/13/2022	ND	0.51	1.0
			09/20/2022	ND	0.50	0.99
			10/04/2022	ND	0.51	0.99
			10/11/2022	ND	0.50	0.99
			11/01/2022	ND	0.51	0.99
			11/09/2022	ND	0.51	0.99
			12/06/2022	ND	0.49	2.0
			12/13/2022	ND	0.49	2.0
			Annual Mean	0.51 DNQ		
			Annual Max	0.71 DNQ		
	mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	ND	2.1	4.2
			01/25/2022	ND	2.2	4.4
			02/01/2022	ND	1.6	3.1
			02/08/2022	ND	2.1	4.2
			03/01/2022	ND	2.1	4.2
			04/05/2022	3.0 DNQ	2.1	4.2
			04/12/2022	ND	2.2	4.2
			05/03/2022	ND	2.1	4.0
			05/10/2022	ND	2.0	3.9
			06/07/2022	ND	2.1	4.0
			06/14/2022	ND	2.0	4.0
			07/12/2022	ND	2.1	4.1
			07/19/2022	ND	2.0	3.9
			08/02/2022	ND	2.0	3.9
			08/09/2022	ND	2.1	4.0
			09/13/2022	ND	2.2	4.2
			09/20/2022	ND	2.0	4.0
			10/04/2022	ND	2.1	4.0
			10/11/2022	ND	2.1	4.1
			11/01/2022	ND	2.0	3.9
			11/09/2022	ND	2.0	3.9
			12/06/2022	ND	2.0	8.1
			12/13/2022	ND	2.0	8.0
			Annual Mean	2.1 DNQ		
			Annual Max	3.0 DNQ		
EPA 300.0	mg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	0.51	1.0
			01/25/2022	ND	0.51	1.0
			02/01/2022	ND	0.50	0.99
			02/08/2022	ND	0.50	0.99
			03/01/2022	ND	0.51	0.99
			03/08/2022	ND	0.51	1.0
			04/05/2022	ND	0.50	0.99
			04/12/2022	ND	0.51	0.99
			05/03/2022	ND	0.51	0.99
			05/10/2022	ND	0.50	0.99
			06/07/2022	ND	0.51	1.0
			06/14/2022	ND	0.51	1.0
			07/12/2022	ND	0.51	0.99
			07/19/2022	ND	0.50	0.98
			08/02/2022	ND	0.51	1.0
			08/09/2022	ND	0.51	1.0
			09/13/2022	ND	0.51	0.99
			09/20/2022	ND	0.50	0.99
			10/04/2022	ND	0.51	1.0
			10/11/2022	ND	0.51	0.99
			11/01/2022	ND	0.51	1.0
			11/09/2022	ND	0.51	1.0
			12/06/2022	ND	0.48	2.0
			12/13/2022	ND	0.49	2.0
			Annual Mean	<0.51		

Appendix C: Summary of Biosolids Monitoring Results

				Annual Max	<0.51		
		mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	ND	1.9	3.7
				02/01/2022	ND	1.7	3.4
				02/08/2022	ND	1.9	3.8
				03/01/2022	ND	2.0	3.9
				04/05/2022	ND	1.8	3.6
				04/12/2022	ND	1.9	3.8
				05/03/2022	ND	1.8	3.5
				05/10/2022	ND	1.8	3.5
				06/07/2022	ND	1.8	3.5
				06/14/2022	ND	1.8	3.5
				07/12/2022	ND	1.8	3.5
				07/19/2022	ND	1.8	3.5
				08/02/2022	ND	1.8	3.6
				08/09/2022	ND	1.8	3.5
				09/13/2022	ND	1.9	3.6
				09/20/2022	ND	1.8	3.5
				10/04/2022	ND	1.9	3.6
				10/11/2022	ND	2.0	3.8
				11/01/2022	ND	1.9	3.7
				11/09/2022	ND	2.2	4.3
			12/06/2022	ND	1.8	7.4	
			12/13/2022	ND	1.7	7.0	
			Annual Mean	<2.2			
			Annual Max	<2.2			
Nitrite-N	EPA 300.0	mg/kg	Plant 1 Dewatering Cake	01/04/2022	0.35 DNQ	0.32	1.0
				01/25/2022	0.33 DNQ	0.32	1.0
				02/01/2022	ND	0.31	1.0
				02/08/2022	0.41 DNQ	0.31	0.99
				03/01/2022	ND	0.31	0.99
				03/08/2022	0.76 DNQ	0.31	0.99
				04/05/2022	ND	0.31	0.99
				04/12/2022	ND	0.31	0.99
				05/03/2022	0.97 DNQ	0.31	0.99
				05/10/2022	ND	0.31	0.99
				06/07/2022	ND	0.31	1.0
				06/14/2022	0.41 DNQ	0.31	0.99
				07/12/2022	0.43 DNQ	0.32	1.0
				07/19/2022	0.42 DNQ	0.31	0.98
				08/02/2022	0.42 DNQ	0.31	0.99
				08/09/2022	0.42 DNQ	0.32	1.0
				09/13/2022	0.45 DNQ	0.32	1.0
				09/20/2022	0.36 DNQ	0.31	0.99
				10/04/2022	0.39 DNQ	0.31	0.99
				10/11/2022	0.35 DNQ	0.31	0.99
11/01/2022	ND	0.31	0.99				
11/09/2022	0.33 DNQ	0.31	0.99				
12/06/2022	ND	0.37	2.0				
12/13/2022	1.5 DNQ	0.36	2.0				
			Annual Mean	0.45 DNQ			
			Annual Max	1.5 DNQ			
		mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	1.5 DNQ	1.3	4.2
				01/25/2022	1.4 DNQ	1.4	4.4
				02/01/2022	ND	0.95	3.1
				02/08/2022	1.7 DNQ	1.3	4.2
				03/01/2022	ND	1.3	4.2
				04/05/2022	ND	1.3	4.2
				04/12/2022	ND	1.3	4.2
				05/03/2022	3.9 DNQ	1.3	4.0
				05/10/2022	ND	1.2	3.9
				06/07/2022	ND	1.3	4.0
				06/14/2022	1.7 DNQ	1.3	4.0

Appendix C: Summary of Biosolids Monitoring Results

			07/12/2022	1.8 DNQ	1.3	4.1			
			07/19/2022	1.7 DNQ	1.2	3.9			
			08/02/2022	1.7 DNQ	1.2	3.9			
			08/09/2022	1.7 DNQ	1.3	4.0			
			09/13/2022	1.9 DNQ	1.4	4.2			
			09/20/2022	1.4 DNQ	1.2	4.0			
			10/04/2022	1.6 DNQ	1.3	4.0			
			10/11/2022	1.5 DNQ	1.3	4.1			
			11/01/2022	ND	1.2	3.9			
			11/09/2022	1.3 DNQ	1.2	3.9			
			12/06/2022	ND	1.5	8.1			
			12/13/2022	6.0 DNQ	1.4	8.0			
			Annual Mean	1.8 DNQ					
			Annual Max	6.0 DNQ					
EPA 300.0	mg/kg	Plant 2 Dewatering Cake	01/04/2022	0.34 DNQ	0.32	1.0			
			01/25/2022	0.81 DNQ	0.32	1.0			
			02/01/2022	ND	0.31	0.99			
			02/08/2022	0.41 DNQ	0.31	0.99			
			03/01/2022	0.35 DNQ	0.31	0.99			
			03/08/2022	0.49 DNQ	0.32	1.0			
			04/05/2022	0.39 DNQ	0.31	0.99			
			04/12/2022	0.31 DNQ	0.31	0.99			
			05/03/2022	ND	0.31	0.99			
			05/10/2022	ND	0.31	0.99			
			06/07/2022	ND	0.32	1.0			
			06/14/2022	0.35 DNQ	0.32	1.0			
			07/12/2022	0.31 DNQ	0.31	0.99			
			07/19/2022	0.37 DNQ	0.31	0.98			
			08/02/2022	0.41 DNQ	0.32	1.0			
			08/09/2022	0.33 DNQ	0.32	1.0			
			09/13/2022	ND	0.31	0.99			
			09/20/2022	ND	0.31	0.99			
			10/04/2022	ND	0.31	1.0			
			10/11/2022	0.32 DNQ	0.31	0.99			
			11/01/2022	ND	0.31	1.0			
			11/09/2022	0.36 DNQ	0.32	1.0			
			12/06/2022	ND	0.36	2.0			
			12/13/2022	ND	0.36	2.0			
						Annual Mean	0.37 DNQ		
						Annual Max	0.81 DNQ		
				mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	3.0 DNQ	1.2	3.7
						02/01/2022	ND	1.1	3.4
	02/08/2022	1.6 DNQ	1.2			3.8			
	03/01/2022	1.4 DNQ	1.2			3.9			
	04/05/2022	1.4 DNQ	1.1			3.6			
	04/12/2022	1.2 DNQ	1.2			3.8			
	05/03/2022	ND	1.1			3.5			
	05/10/2022	ND	1.1			3.5			
	06/07/2022	ND	1.1			3.5			
	06/14/2022	1.2 DNQ	1.1			3.5			
	07/12/2022	1.1 DNQ	1.1			3.5			
	07/19/2022	1.3 DNQ	1.1			3.5			
	08/02/2022	1.5 DNQ	1.2			3.6			
	08/09/2022	1.2 DNQ	1.1			3.5			
	09/13/2022	ND	1.1			3.6			
	09/20/2022	ND	1.1			3.5			
	10/04/2022	ND	1.1			3.6			
	10/11/2022	1.2 DNQ	1.2			3.8			
	11/01/2022	ND	1.2			3.7			
	11/09/2022	1.6 DNQ	1.4			4.3			
	12/06/2022	ND	1.3			7.4			
	12/13/2022	ND	1.3			7.0			

Appendix C: Summary of Biosolids Monitoring Results

				Annual Mean	1.3 DNQ			
				Annual Max	3.0 DNQ			
Organic Lead	HML 939-M	mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	ND	0.012	0.084	
				07/12/2022	ND	0.066	0.082	
				Annual Mean	<0.066			
				Annual Max	<0.066			
				07/12/2022	ND	0.056	0.070	
				Annual Mean	<0.056			
				Annual Max	<0.056			
Organic Lead wet weight	HML 939-M	mg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	0.0029	0.020	
				07/12/2022	ND	0.016	0.020	
				Annual Mean	<0.016			
				Annual Max	<0.016			
				01/04/2022	ND	0.0029	0.020	
				07/12/2022	ND	0.016	0.020	
				Annual Mean	<0.016			
				Annual Max	<0.016			
Organic Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	52000	--	--	
				01/25/2022	50000	--	--	
				02/01/2022	44000	--	--	
				02/08/2022	53000	--	--	
				03/01/2022	64000	--	--	
				04/05/2022	77000	--	--	
				04/12/2022	64000	--	--	
				05/03/2022	67000	--	--	
				05/10/2022	91000	--	--	
				06/07/2022	66000	--	--	
				06/14/2022	54000	--	--	
				07/12/2022	55000	--	--	
				07/19/2022	58000	--	--	
				08/02/2022	54000	--	--	
				08/09/2022	51000	--	--	
				09/13/2022	30000	--	--	
				09/20/2022	36000	--	--	
				10/04/2022	19000	--	--	
				10/11/2022	22000	--	--	
				11/01/2022	45000	--	--	
				11/09/2022	53000	--	--	
				12/06/2022	67000	--	--	
				12/13/2022	54000	--	--	
					Annual Mean	53000		
		Annual Max	91000					
		CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	54000	--	--
					02/01/2022	41000	--	--
					02/08/2022	48000	--	--
					03/01/2022	54000	--	--
					04/05/2022	58000	--	--
					04/12/2022	56000	--	--
					05/03/2022	54000	--	--
	05/10/2022				94000	--	--	
	06/07/2022				66000	--	--	
	06/14/2022				36000	--	--	
	07/12/2022				49000	--	--	
	07/19/2022				50000	--	--	
	08/02/2022				54000	--	--	
	08/09/2022				36000	--	--	
	09/13/2022				22000	--	--	
	09/20/2022				29000	--	--	
	10/04/2022	43000	--	--				
	10/11/2022	49000	--	--				
	11/01/2022	47000	--	--				
	11/09/2022	60000	--	--				

Appendix C: Summary of Biosolids Monitoring Results

				12/06/2022	34000	--	--
				12/13/2022	44000	--	--
				Annual Mean	49000		
				Annual Max	94000		
Organic Nitrogen wet weight	CALC	mg/kg	Plant 1 Dewatering Cake	01/04/2022	12000	--	--
				01/25/2022	12000	--	--
				02/01/2022	14000	--	--
				02/08/2022	13000	--	--
				03/01/2022	15000	--	--
				03/08/2022	14000	--	--
				04/05/2022	18000	--	--
				04/12/2022	15000	--	--
				05/03/2022	16000	--	--
				05/10/2022	24000	--	--
				06/07/2022	16000	--	--
				06/14/2022	13000	--	--
				07/12/2022	13000	--	--
				07/19/2022	15000	--	--
				08/02/2022	13000	--	--
				08/09/2022	13000	--	--
				09/13/2022	7200	--	--
				09/20/2022	9100	--	--
				10/04/2022	4800	--	--
				10/11/2022	5100	--	--
				11/01/2022	11000	--	--
				11/09/2022	13000	--	--
				12/06/2022	17000	--	--
				12/13/2022	13000	--	--
				Annual Max	24000		
	CALC	mg/kg	Plant 2 Dewatering Cake	01/04/2022	10000	--	--
				01/25/2022	15000	--	--
				02/01/2022	12000	--	--
				02/08/2022	12000	--	--
				03/01/2022	14000	--	--
				03/08/2022	15000	--	--
				04/05/2022	16000	--	--
				04/12/2022	15000	--	--
				05/03/2022	15000	--	--
				05/10/2022	27000	--	--
				06/07/2022	19000	--	--
				06/14/2022	10000	--	--
				07/12/2022	14000	--	--
				07/19/2022	14000	--	--
				08/02/2022	15000	--	--
				08/09/2022	10000	--	--
				09/13/2022	6000	--	--
				09/20/2022	8100	--	--
				10/04/2022	12000	--	--
				10/11/2022	13000	--	--
				11/01/2022	13000	--	--
				11/09/2022	14000	--	--
				12/06/2022	9200	--	--
				12/13/2022	13000	--	--
							Annual Mean
				Annual Max	27000		
pH	EPA 9045C	pH units	Plant 1 Dewatering Cake	01/04/2022	7.8	1.7	1.7
				01/25/2022	8.0	1.7	1.7
				02/01/2022	7.8	1.7	1.7
				02/08/2022	8.1	1.7	1.7
				03/01/2022	8.2	1.7	1.7
				03/08/2022	8.1	1.7	1.7

Appendix C: Summary of Biosolids Monitoring Results

				04/05/2022	7.8	1.7	1.7
				04/12/2022	7.9	1.7	1.7
				05/03/2022	7.8	1.7	1.7
				05/10/2022	7.8	1.7	1.7
				06/07/2022	8.0	1.7	1.7
				06/14/2022	7.3	1.7	1.7
				07/12/2022	7.5	1.7	1.7
				07/19/2022	8.2	1.7	1.7
				08/02/2022	8.2	1.7	1.7
				08/09/2022	7.4	1.7	1.7
				09/13/2022	8.2	1.7	1.7
				09/20/2022	7.6	1.7	1.7
				10/04/2022	8.0	1.7	1.7
				10/11/2022	7.7	1.7	1.7
				11/01/2022	8.4	1.7	1.7
				11/09/2022	8.4	1.7	1.7
				12/06/2022	7.0	0.010	0.01
				12/13/2022	8.3	0.010	0.01
				Annual Mean	7.9		
				Annual Max	8.4		
	EPA 9045C	pH units	Plant 2 Dewatering Cake	01/04/2022	7.8	1.7	1.7
				01/25/2022	8.2	1.7	1.7
				02/01/2022	7.5	1.7	1.7
				02/08/2022	8.3	1.7	1.7
				03/01/2022	8.0	1.7	1.7
				03/08/2022	8.2	1.7	1.7
				04/05/2022	7.9	1.7	1.7
				04/12/2022	7.8	1.7	1.7
				05/03/2022	8.0	1.7	1.7
				05/10/2022	7.8	1.7	1.7
				06/07/2022	8.0	1.7	1.7
				06/14/2022	7.5	1.7	1.7
				07/12/2022	7.8	1.7	1.7
				07/19/2022	7.9	1.7	1.7
				08/02/2022	8.1	1.7	1.7
				08/09/2022	7.4	1.7	1.7
				09/13/2022	8.1	1.7	1.7
				09/20/2022	7.6	1.7	1.7
				10/04/2022	8.2	1.7	1.7
				10/11/2022	7.7	1.7	1.7
				11/01/2022	8.2	1.7	1.7
				11/09/2022	8.2	1.7	1.7
				12/06/2022	6.9	0.010	0.01
				12/13/2022	7.9	0.010	0.01
				Annual Mean	7.9		
				Annual Max	8.3		
Temperature	EPA 9045C	°C	Plant 1 Dewatering Cake	12/06/2022	22.5	1.0	1
				12/13/2022	23.8	1.0	1.0
				Annual Mean	23		
				Annual Max	24		
	EPA 9045C	°C	Plant 2 Dewatering Cake	12/06/2022	22.5	1.0	1.0
				12/13/2022	23.5	1.0	1
				Annual Mean	23		
				Annual Max	24		
Total Cyanide	EPA 9014	mg/kg dry weight	Plant 1 Dewatering Cake	03/01/2022	8.1	0.90	0.98
				Annual Mean	8.1		
				Annual Max	8.1		
	EPA 9014	mg/kg dry weight	Plant 2 Dewatering Cake	03/01/2022	7.4	0.80	0.90
				Annual Mean	7.4		
				Annual Max	7.4		
Total Cyanide wet	EPA 9014	mg/kg	Plant 1 Dewatering	03/01/2022	1.9	0.20	0.23
				Annual Mean	1.9		

Appendix C: Summary of Biosolids Monitoring Results

weight	EPA 9014	mg/kg	Cake	Annual Max	1.9						
			Plant 2	03/01/2022	1.9	0.20	0.23				
			Dewatering	Annual Mean	1.9						
			Cake	Annual Max	1.9						
Total Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	63000	--	--				
				01/25/2022	57000	--	--				
				02/01/2022	49000	--	--				
				02/08/2022	63000	--	--				
				03/01/2022	72000	--	--				
				04/05/2022	84000	--	--				
				04/12/2022	72000	--	--				
				05/03/2022	77000	--	--				
				05/10/2022	100000	--	--				
				06/07/2022	73000	--	--				
				06/14/2022	60000	--	--				
				07/12/2022	62000	--	--				
				07/19/2022	64000	--	--				
				08/02/2022	60000	--	--				
				08/09/2022	57000	--	--				
				09/13/2022	38000	--	--				
				09/20/2022	44000	--	--				
				10/04/2022	27000	--	--				
				10/11/2022	28000	--	--				
				11/01/2022	51000	--	--				
				11/09/2022	59000	--	--				
				12/06/2022	77000	--	--				
				12/13/2022	60000	--	--				
					Annual Mean	61000					
					Annual Max	100000					
					CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	59000	--	--
								02/01/2022	45000	--	--
02/08/2022	54000	--	--								
03/01/2022	59000	--	--								
04/05/2022	62000	--	--								
04/12/2022	61000	--	--								
05/03/2022	60000	--	--								
05/10/2022	99000	--	--								
06/07/2022	70000	--	--								
06/14/2022	39000	--	--								
07/12/2022	53000	--	--								
07/19/2022	53000	--	--								
08/02/2022	58000	--	--								
08/09/2022	39000	--	--								
09/13/2022	28000	--	--								
09/20/2022	33000	--	--								
10/04/2022	47000	--	--								
10/11/2022	54000	--	--								
11/01/2022	52000	--	--								
11/09/2022	65000	--	--								
12/06/2022	48000	--	--								
12/13/2022	49000	--	--								
	Annual Mean	54000									
	Annual Max	99000									
Total Nitrogen wet weight	CALC	mg/kg	Plant 1 Dewatering Cake	01/04/2022	15000	--	--				
				01/25/2022	13000	--	--				
				02/01/2022	16000	--	--				
				02/08/2022	15000	--	--				
				03/01/2022	17000	--	--				
				03/08/2022	16000	--	--				
				04/05/2022	20000	--	--				
				04/12/2022	17000	--	--				
				05/03/2022	19000	--	--				

Appendix C: Summary of Biosolids Monitoring Results

				05/10/2022	26000	--	--
				06/07/2022	18000	--	--
				06/14/2022	15000	--	--
				07/12/2022	15000	--	--
				07/19/2022	16000	--	--
				08/02/2022	15000	--	--
				08/09/2022	14000	--	--
				09/13/2022	9000	--	--
				09/20/2022	11000	--	--
				10/04/2022	6700	--	--
				10/11/2022	6600	--	--
				11/01/2022	13000	--	--
				11/09/2022	15000	--	--
				12/06/2022	19000	--	--
				12/13/2022	15000	--	--
				Annual Mean	15000		
				Annual Max	26000		
	CALC	mg/kg	Plant 2 Dewatering Cake	01/04/2022	13000	--	--
				01/25/2022	16000	--	--
				02/01/2022	13000	--	--
				02/08/2022	14000	--	--
				03/01/2022	15000	--	--
				03/08/2022	16000	--	--
				04/05/2022	17000	--	--
				04/12/2022	16000	--	--
				05/03/2022	17000	--	--
				05/10/2022	28000	--	--
				06/07/2022	20000	--	--
				06/14/2022	11000	--	--
				07/12/2022	15000	--	--
				07/19/2022	15000	--	--
				08/02/2022	16000	--	--
				08/09/2022	11000	--	--
				09/13/2022	7600	--	--
				09/20/2022	9300	--	--
				10/04/2022	13000	--	--
				10/11/2022	14000	--	--
				11/01/2022	14000	--	--
				11/09/2022	15000	--	--
				12/06/2022	13000	--	--
				12/13/2022	14000	--	--
				Annual Mean	15000		
				Annual Max	28000		
Total Solids	SM 2540G	%	Plant 1 Dewatering Cake	01/04/2022	23.8	0.10	0.100
				01/25/2022	22.9	0.10	0.100
				02/01/2022	32.5	0.10	0.100
				02/08/2022	23.7	0.10	0.100
				03/01/2022	23.5	0.10	0.100
				04/05/2022	23.8	0.10	0.100
				04/12/2022	23.7	0.10	0.100
				05/03/2022	24.8	0.10	0.100
				05/10/2022	25.1	0.10	0.100
				06/07/2022	24.7	0.10	0.100
				06/14/2022	24.8	0.10	0.100
				07/12/2022	24.3	0.10	0.100
				07/19/2022	25.1	0.10	0.100
				08/02/2022	25.1	0.10	0.100
				08/09/2022	24.7	0.10	0.100
				09/13/2022	23.6	0.10	0.100
				09/20/2022	25.0	0.10	0.100
				10/04/2022	24.7	0.10	0.100
				10/11/2022	24.0	0.10	0.100

Appendix C: Summary of Biosolids Monitoring Results

					11/01/2022	25.5	0.10	0.100	
					11/09/2022	25.5	0.10	0.100	
					12/06/2022	24.8	0.10	0.100	
					12/13/2022	25.0	0.10	0.100	
					Annual Mean	25			
					Annual Max	32			
	SM 2540G	%		Plant 2 Dewatering Cake	01/25/2022	27.3	0.10	0.100	
					02/01/2022	28.7	0.10	0.100	
					02/08/2022	25.9	0.10	0.100	
					03/01/2022	25.6	0.10	0.100	
					04/05/2022	27.4	0.10	0.100	
					04/12/2022	26.4	0.10	0.100	
					05/03/2022	28.2	0.10	0.100	
					05/10/2022	28.3	0.10	0.100	
					06/07/2022	28.4	0.10	0.100	
					06/14/2022	28.3	0.10	0.100	
					07/12/2022	28.5	0.10	0.100	
					07/19/2022	28.3	0.10	0.100	
					08/02/2022	27.6	0.10	0.100	
					08/09/2022	28.2	0.10	0.100	
					09/13/2022	27.5	0.10	0.100	
					09/20/2022	27.9	0.10	0.100	
					10/04/2022	27.5	0.10	0.100	
					10/11/2022	25.8	0.10	0.100	
					11/01/2022	26.7	0.10	0.100	
					11/09/2022	23.2	0.10	0.100	
					12/06/2022	27.0	0.10	0.100	
					12/13/2022	28.5	0.10	0.100	
					Annual Mean	27			
					Annual Max	29			
Trace Elements	Antimony	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	07/12/2022	4.1	0.95	2.1	
					Annual Mean	4.1			
					Annual Max	4.1			
			EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	07/12/2022	2.3	0.81	1.7
						Annual Mean	2.3		
						Annual Max	2.3		
		Antimony wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	07/12/2022	1.0	0.23	0.50
	Annual Mean					1.0			
	Annual Max					1.0			
			EPA 6010C	mg/kg	Plant 2 Dewatering Cake	07/12/2022	0.66	0.23	0.49
						Annual Mean	0.66		
						Annual Max	0.66		
		Arsenic	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/25/2022	11	1.1	11
	02/01/2022					7.4 DNQ	0.77	7.7	
	02/08/2022					11	1.1	11	
	03/01/2022					8.1 DNQ	1.1	11	
	04/05/2022					8.0 DNQ	1.1	10	
	04/12/2022					8.4 DNQ	1.1	11	
05/03/2022	8.1 DNQ					1.0	9.7		
05/10/2022	8.4 DNQ					1.0	10.0		
06/07/2022	7.3 DNQ					1.0	10		
06/14/2022	7.3 DNQ					1.0	9.7		
07/12/2022	8.2 DNQ					1.0	10		
07/19/2022	8.4 DNQ					1.0	10.0		
08/02/2022	8.4 DNQ					1.0	10.0		
08/09/2022	7.7 DNQ					1.0	9.7		
09/13/2022	7.2 DNQ					1.1	11		
09/20/2022	8.4 DNQ	1.0	10						
10/04/2022	12	1.0	10						
10/11/2022	8.3 DNQ	1.0	10						
11/01/2022	9.8	0.98	9.8						
11/09/2022	8.6 DNQ	0.98	9.8						

Appendix C: Summary of Biosolids Monitoring Results

				12/06/2022	9.7 DNQ	1.0	10
				12/13/2022	8.4 DNQ	1.0	10
				Annual Mean	8.6 DNQ		
				Annual Max		12	
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	9.9	0.92	9.2
				02/01/2022	13	0.87	8.4
				02/08/2022	14	0.97	9.3
				03/01/2022	9.8	0.98	9.4
				04/05/2022	12	0.91	8.8
				04/12/2022	12	0.95	9.5
				05/03/2022	11	0.89	8.9
				05/10/2022	12	0.88	8.8
				06/07/2022	9.9	0.88	8.8
				06/14/2022	12	0.88	8.8
				07/12/2022	11	0.88	8.4
				07/19/2022	7.8 DNQ	0.88	8.8
				08/02/2022	14	0.91	9.1
				08/09/2022	8.2 DNQ	0.89	8.9
				09/13/2022	8.4 DNQ	0.91	9.1
				09/20/2022	9.3	0.90	9.0
				10/04/2022	16	0.91	9.1
				10/11/2022	12	0.97	9.7
				11/01/2022	10	0.94	9.0
				11/09/2022	9.5 DNQ	1.1	11
				12/06/2022	13	0.93	8.9
				12/13/2022	12	0.88	8.8
				Annual Mean	11 DNQ		
				Annual Max		16	
Arsenic wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022	2.5	0.25	2.5
				02/01/2022	2.4 DNQ	0.25	2.5
				02/08/2022	2.6	0.25	2.5
				03/01/2022	1.9 DNQ	0.25	2.5
				03/08/2022	3.4	0.26	2.5
				04/05/2022	1.9 DNQ	0.25	2.4
				04/12/2022	2.0 DNQ	0.25	2.5
				05/03/2022	2.0 DNQ	0.25	2.4
				05/10/2022	2.1 DNQ	0.25	2.5
				06/07/2022	1.8 DNQ	0.25	2.5
				06/14/2022	1.8 DNQ	0.25	2.4
				07/12/2022	2.0 DNQ	0.25	2.5
				07/19/2022	2.1 DNQ	0.25	2.5
				08/02/2022	2.1 DNQ	0.25	2.5
				08/09/2022	1.9 DNQ	0.25	2.4
				09/13/2022	1.7 DNQ	0.25	2.5
				09/20/2022	2.1 DNQ	0.25	2.5
				10/04/2022	3.0	0.25	2.5
				10/11/2022	2.0 DNQ	0.25	2.5
				11/01/2022	2.5	0.25	2.5
				11/09/2022	2.2 DNQ	0.25	2.5
				12/06/2022	2.4 DNQ	0.25	2.5
				12/13/2022	2.1 DNQ	0.25	2.5
				Annual Mean	2.2 DNQ		
				Annual Max		3.4	
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	2.7	0.25	2.5
				02/01/2022	3.6	0.25	2.4
				02/08/2022	3.6	0.25	2.4
				03/01/2022	2.5	0.25	2.4
				03/08/2022	2.6	0.25	2.5
				04/05/2022	3.2	0.25	2.4
				04/12/2022	3.2	0.25	2.5
				05/03/2022	3.2	0.25	2.5
				05/10/2022	3.5	0.25	2.5

Appendix C: Summary of Biosolids Monitoring Results

				06/07/2022	2.8	0.25	2.5
				06/14/2022	3.3	0.25	2.5
				07/12/2022	3.0	0.25	2.4
				07/19/2022	2.2 DNQ	0.25	2.5
				08/02/2022	3.8	0.25	2.5
				08/09/2022	2.3 DNQ	0.25	2.5
				09/13/2022	2.3 DNQ	0.25	2.5
				09/20/2022	2.6	0.25	2.5
				10/04/2022	4.3	0.25	2.5
				10/11/2022	3.2	0.25	2.5
				11/01/2022	2.8	0.25	2.4
				11/09/2022	2.2 DNQ	0.25	2.5
				12/06/2022	3.4	0.25	2.4
				12/13/2022	3.5	0.25	2.5
				Annual Mean	3.0 DNQ		
				Annual Max	4.3		
Barium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	07/12/2022	450	0.21	21
				Annual Mean	450		
				Annual Max	450		
EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	07/12/2022	1200	0.18	17	
			Annual Mean	1200			
			Annual Max	1200			
Barium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	07/12/2022	110	0.051	5.0
				Annual Mean	110		
				Annual Max	110		
EPA 6010C	mg/kg	Plant 2 Dewatering Cake	07/12/2022	340	0.050	4.9	
			Annual Mean	340			
			Annual Max	340			
Beryllium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	07/12/2022	0.15 DNQ	0.024	0.21
				Annual Mean	0.15 DNQ		
				Annual Max	0.15 DNQ		
EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	07/12/2022	0.11 DNQ	0.020	0.17	
			Annual Mean	0.11 DNQ			
			Annual Max	0.11 DNQ			
Beryllium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	07/12/2022	0.036 DNQ	0.0058	0.050
				Annual Mean	0.036 DNQ		
				Annual Max	0.036 DNQ		
EPA 6010C	mg/kg	Plant 2 Dewatering Cake	07/12/2022	0.031 DNQ	0.0057	0.049	
			Annual Mean	0.031 DNQ			
			Annual Max	0.031 DNQ			
Cadmium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/25/2022	1.3	0.18	0.44
				02/01/2022	0.80	0.13	0.30
				02/08/2022	1.2	0.18	0.42
				03/01/2022	1.4	0.18	0.43
				04/05/2022	1.8	0.17	0.41
				04/12/2022	1.2	0.18	0.42
				05/03/2022	0.97	0.17	0.40
				05/10/2022	1.1	0.17	0.39
				06/07/2022	1.1	0.17	0.40
				06/14/2022	1.2	0.17	0.39
				07/12/2022	0.95	0.17	0.41
				07/19/2022	0.76	0.17	0.39
				08/02/2022	0.64	0.17	0.39
				08/09/2022	0.81	0.17	0.39
				09/13/2022	1.4	0.18	0.42
				09/20/2022	1.4	0.17	0.40
				10/04/2022	1.3	0.17	0.40
				10/11/2022	1.6	0.18	0.42
				11/01/2022	1.5	0.16	0.39
				11/09/2022	1.5	0.16	0.39
12/06/2022	1.2	0.17	0.40				
12/13/2022	1.3	0.17	0.39				

Appendix C: Summary of Biosolids Monitoring Results

				Annual Mean	1.2		
				Annual Max	1.8		
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	1.2	0.15	0.37
				02/01/2022	1.3	0.14	0.34
				02/08/2022	1.3	0.16	0.38
				03/01/2022	1.1	0.16	0.38
				04/05/2022	1.4	0.15	0.36
				04/12/2022	1.3	0.16	0.37
				05/03/2022	1.1	0.15	0.35
				05/10/2022	1.4	0.15	0.35
				06/07/2022	1.3	0.15	0.35
				06/14/2022	1.4	0.15	0.35
				07/12/2022	0.60	0.14	0.34
				07/19/2022	0.53	0.15	0.35
				08/02/2022	1.7	0.15	0.36
				08/09/2022	1.8	0.15	0.35
				09/13/2022	1.5	0.15	0.36
				09/20/2022	1.0	0.15	0.35
				10/04/2022	1.2	0.15	0.36
				10/11/2022	1.1	0.16	0.38
				11/01/2022	1.3	0.15	0.36
				11/09/2022	1.2	0.18	0.43
				12/06/2022	1.0	0.15	0.36
				12/13/2022	1.2	0.15	0.35
				Annual Mean	1.2		
				Annual Max	1.8		
Cadmium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022	0.29	0.042	0.10
				02/01/2022	0.26	0.042	0.098
				02/08/2022	0.29	0.042	0.10
				03/01/2022	0.33	0.042	0.10
				03/08/2022	0.30	0.042	0.10
				04/05/2022	0.42	0.041	0.098
				04/12/2022	0.29	0.042	0.10
				05/03/2022	0.24	0.041	0.098
				05/10/2022	0.27	0.042	0.098
				06/07/2022	0.28	0.042	0.098
				06/14/2022	0.30	0.041	0.097
				07/12/2022	0.23	0.042	0.099
				07/19/2022	0.19	0.042	0.099
				08/02/2022	0.16	0.042	0.098
				08/09/2022	0.20	0.041	0.097
				09/13/2022	0.32	0.042	0.099
				09/20/2022	0.35	0.042	0.10
				10/04/2022	0.31	0.042	0.10
				10/11/2022	0.39	0.042	0.10
				11/01/2022	0.38	0.042	0.099
				11/09/2022	0.38	0.042	0.099
				12/06/2022	0.29	0.042	0.10
				12/13/2022	0.33	0.042	0.098
				Annual Mean	0.30		
				Annual Max	0.42		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	0.33	0.042	0.10
				02/01/2022	0.36	0.041	0.098
				02/08/2022	0.33	0.041	0.098
				03/01/2022	0.27	0.041	0.098
				03/08/2022	0.26	0.042	0.099
				04/05/2022	0.38	0.041	0.098
				04/12/2022	0.33	0.042	0.098
				05/03/2022	0.31	0.042	0.099
				05/10/2022	0.40	0.042	0.10
				06/07/2022	0.37	0.042	0.098
				06/14/2022	0.39	0.042	0.098

Appendix C: Summary of Biosolids Monitoring Results

				07/12/2022	0.17	0.041	0.098	
				07/19/2022	0.15	0.042	0.099	
				08/02/2022	0.47	0.042	0.10	
				08/09/2022	0.52	0.042	0.098	
				09/13/2022	0.40	0.042	0.099	
				09/20/2022	0.28	0.042	0.099	
				10/04/2022	0.34	0.042	0.099	
				10/11/2022	0.28	0.042	0.099	
				11/01/2022	0.34	0.041	0.097	
				11/09/2022	0.28	0.042	0.099	
				12/06/2022	0.28	0.041	0.097	
				12/13/2022	0.34	0.042	0.099	
				Annual Mean	0.33			
				Annual Max	0.52			
Chromium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/25/2022	44	0.70	1.1	
				02/01/2022	31	0.49	0.77	
				02/08/2022	46	0.68	1.1	
				03/01/2022	40	0.68	1.1	
				04/05/2022	41	0.67	1.0	
				04/12/2022	38	0.68	1.1	
				05/03/2022	33	0.65	0.97	
				05/10/2022	34	0.64	1.00	
				06/07/2022	31	0.65	1.0	
				06/14/2022	36	0.65	0.97	
				07/12/2022	32	0.66	1.0	
				07/19/2022	37	0.64	1.00	
				08/02/2022	37	0.64	1.00	
				08/09/2022	37	0.65	0.97	
	09/13/2022	37	0.68	1.1				
	09/20/2022	37	0.64	1.0				
	10/04/2022	39	0.65	1.0				
	10/11/2022	37	0.67	1.0				
	11/01/2022	38	0.63	0.98				
	11/09/2022	36	0.63	0.98				
	12/06/2022	38	0.65	1.0				
	12/13/2022	38	0.64	1.0				
				Annual Mean	37			
				Annual Max	46			
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	51	0.59	0.92
					02/01/2022	49	0.56	0.84
					02/08/2022	54	0.62	0.93
					03/01/2022	47	0.63	0.94
	04/05/2022				40	0.58	0.88	
	04/12/2022				42	0.61	0.95	
	05/03/2022				39	0.57	0.89	
	05/10/2022				42	0.57	0.88	
	06/07/2022				39	0.56	0.88	
	06/14/2022				42	0.57	0.88	
	07/12/2022				42	0.56	0.84	
	07/19/2022				35	0.57	0.88	
	08/02/2022				54	0.58	0.91	
	08/09/2022				46	0.57	0.89	
	09/13/2022	47	0.58	0.91				
	09/20/2022	54	0.57	0.90				
	10/04/2022	55	0.58	0.91				
	10/11/2022	47	0.62	0.97				
	11/01/2022	49	0.60	0.90				
	11/09/2022	39	0.69	1.1				
	12/06/2022	48	0.59	0.89				
	12/13/2022	46	0.56	0.88				
			Annual Mean	46				
			Annual Max	55				

Appendix C: Summary of Biosolids Monitoring Results

Chromium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022	10	0.16	0.25
				02/01/2022	10	0.16	0.25
				02/08/2022	11	0.16	0.25
				03/01/2022	9.5	0.16	0.25
				03/08/2022	12	0.16	0.25
				04/05/2022	9.8	0.16	0.24
				04/12/2022	8.9	0.16	0.25
				05/03/2022	8.3	0.16	0.24
				05/10/2022	8.5	0.16	0.25
				06/07/2022	7.7	0.16	0.25
				06/14/2022	8.9	0.16	0.24
				07/12/2022	7.8	0.16	0.25
				07/19/2022	9.3	0.16	0.25
				08/02/2022	9.2	0.16	0.25
				08/09/2022	9.1	0.16	0.24
				09/13/2022	8.7	0.16	0.25
				09/20/2022	9.3	0.16	0.25
				10/04/2022	9.7	0.16	0.25
				10/11/2022	8.8	0.16	0.25
				11/01/2022	9.6	0.16	0.25
				11/09/2022	9.1	0.16	0.25
12/06/2022	9.4	0.16	0.25				
12/13/2022	9.5	0.16	0.25				
				Annual Mean	9.3		
				Annual Max	12		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	14	0.16	0.25
				02/01/2022	14	0.16	0.24
				02/08/2022	14	0.16	0.24
				03/01/2022	12	0.16	0.24
				03/08/2022	10	0.16	0.25
				04/05/2022	11	0.16	0.24
				04/12/2022	11	0.16	0.25
				05/03/2022	11	0.16	0.25
				05/10/2022	12	0.16	0.25
				06/07/2022	11	0.16	0.25
				06/14/2022	12	0.16	0.25
				07/12/2022	12	0.16	0.24
				07/19/2022	9.9	0.16	0.25
				08/02/2022	15	0.16	0.25
				08/09/2022	13	0.16	0.25
				09/13/2022	13	0.16	0.25
				09/20/2022	15	0.16	0.25
				10/04/2022	15	0.16	0.25
				10/11/2022	12	0.16	0.25
				11/01/2022	13	0.16	0.24
				11/09/2022	9.1	0.16	0.25
12/06/2022	13	0.16	0.24				
12/13/2022	13	0.16	0.25				
				Annual Mean	12		
				Annual Max	15		
Cobalt	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	07/12/2022	4.5	0.086	1.0
				Annual Mean	4.5		
				Annual Max	4.5		
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	07/12/2022	4.9	0.074	0.84
				Annual Mean	4.9		
				Annual Max	4.9		
Cobalt wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	07/12/2022	1.1	0.021	0.25
				Annual Mean	1.1		
				Annual Max	1.1		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	07/12/2022	1.4	0.021	0.24
				Annual Mean	1.4		
				Annual Max	1.4		

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Copper	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/25/2022	440	0.52	1.1	
				02/01/2022	340	0.34	0.77	
				02/08/2022	510	0.46	1.1	
				03/01/2022	510	0.51	1.1	
				04/05/2022	460	0.46	1.0	
				04/12/2022	460	0.51	1.1	
				05/03/2022	440	0.44	0.97	
				05/10/2022	440	0.44	1.00	
				06/07/2022	450	0.45	1.0	
				06/14/2022	480	0.44	0.97	
				07/12/2022	450	0.45	1.0	
				07/19/2022	440	0.44	1.00	
				08/02/2022	440	0.44	1.00	
				08/09/2022	490	0.45	0.97	
				09/13/2022	470	0.47	1.1	
				09/20/2022	520	0.48	1.0	
				10/04/2022	490	0.49	1.0	
				10/11/2022	500	0.50	1.0	
				11/01/2022	510	0.43	0.98	
				11/09/2022	470	0.43	0.98	
	12/06/2022	480	0.48	1.0				
	12/13/2022	520	0.44	1.0				
	Annual Mean	470						
	Annual Max	520						
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	320	0.44	0.92
	02/01/2022				330	0.38	0.84	
	02/08/2022				370	0.42	0.93	
	03/01/2022				370	0.43	0.94	
	04/05/2022				350	0.40	0.88	
04/12/2022	360				0.42	0.95		
05/03/2022	340				0.39	0.89		
05/10/2022	350				0.42	0.88		
06/07/2022	350				0.39	0.88		
06/14/2022	390				0.39	0.88		
07/12/2022	350				0.39	0.84		
07/19/2022	260				0.39	0.88		
08/02/2022	400				0.43	0.91		
08/09/2022	350				0.39	0.89		
09/13/2022	350				0.40	0.91		
09/20/2022	350				0.39	0.90		
10/04/2022	400				0.40	0.91		
10/11/2022	350				0.43	0.97		
11/01/2022	370				0.41	0.90		
11/09/2022	320				0.47	1.1		
12/06/2022	370	0.41	0.89					
12/13/2022	350	0.39	0.88					
Annual Mean	350							
Annual Max	400							
Copper wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022	100	0.12	0.25	
				02/01/2022	110	0.11	0.25	
				02/08/2022	120	0.11	0.25	
				03/01/2022	120	0.12	0.25	
				03/08/2022	90	0.12	0.25	
				04/05/2022	110	0.11	0.24	
				04/12/2022	110	0.12	0.25	
				05/03/2022	110	0.11	0.24	
				05/10/2022	110	0.11	0.25	
				06/07/2022	110	0.11	0.25	
				06/14/2022	120	0.11	0.24	
				07/12/2022	110	0.11	0.25	
				07/19/2022	110	0.11	0.25	
				08/02/2022	110	0.11	0.25	

Appendix C: Summary of Biosolids Monitoring Results

				08/09/2022	120	0.11	0.24
				09/13/2022	110	0.11	0.25
				09/20/2022	130	0.12	0.25
				10/04/2022	120	0.12	0.25
				10/11/2022	120	0.12	0.25
				11/01/2022	130	0.11	0.25
				11/09/2022	120	0.11	0.25
				12/06/2022	120	0.12	0.25
				12/13/2022	130	0.11	0.25
				Annual Mean	110		
				Annual Max	130		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	88	0.12	0.25
				02/01/2022	96	0.11	0.24
				02/08/2022	97	0.11	0.24
				03/01/2022	95	0.11	0.24
				03/08/2022	100	0.11	0.25
				04/05/2022	97	0.11	0.24
				04/12/2022	94	0.11	0.25
				05/03/2022	96	0.11	0.25
				05/10/2022	100	0.12	0.25
				06/07/2022	99	0.11	0.25
				06/14/2022	110	0.11	0.25
				07/12/2022	100	0.11	0.24
				07/19/2022	74	0.11	0.25
				08/02/2022	110	0.12	0.25
				08/09/2022	100	0.11	0.25
				09/13/2022	96	0.11	0.25
				09/20/2022	98	0.11	0.25
				10/04/2022	110	0.11	0.25
				10/11/2022	90	0.11	0.25
				11/01/2022	100	0.11	0.24
				11/09/2022	74	0.11	0.25
				12/06/2022	100	0.11	0.24
				12/13/2022	100	0.11	0.25
				Annual Mean	97		
				Annual Max	110		
Iron	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	07/12/2022	62000	4.9	82
				Annual Mean	62000		
				Annual Max	62000		
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	07/12/2022	77000	4.2	70
				Annual Mean	77000		
				Annual Max	77000		
Iron wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	07/12/2022	15000	1.2	20
				Annual Mean	15000		
				Annual Max	15000		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	07/12/2022	22000	1.2	20
				Annual Mean	22000		
				Annual Max	22000		
Lead	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/25/2022	6.6	0.61	2.2
				02/01/2022	3.4	0.43	1.5
				02/08/2022	6.3	0.59	2.1
				03/01/2022	6.4	0.60	2.1
				04/05/2022	5.0	0.59	2.1
				04/12/2022	5.9	0.59	2.1
				05/03/2022	7.7	0.56	2.0
				05/10/2022	7.6	0.56	2.0
				06/07/2022	4.5	0.57	2.0
				06/14/2022	6.0	0.56	2.0
				07/12/2022	4.9	0.58	2.1
				07/19/2022	3.9	0.56	2.0
				08/02/2022	2.8	0.56	2.0
				08/09/2022	2.5	0.57	2.0

Appendix C: Summary of Biosolids Monitoring Results

				09/13/2022	3.3	0.59	2.1
				09/20/2022	2.8	0.56	2.0
				10/04/2022	2.1	0.57	2.0
				10/11/2022	4.6	0.58	2.1
				11/01/2022	3.9	0.55	1.9
				11/09/2022	1.5 DNQ	0.55	1.9
				12/06/2022	2.2	0.56	2.0
				12/13/2022	5.2	0.56	2.0
				Annual Mean	4.5 DNQ		
				Annual Max		7.7	
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	3.7	0.51	1.8
				02/01/2022	3.1	0.49	1.7
				02/08/2022	3.6	0.54	1.9
				03/01/2022	7.4	0.55	1.9
				04/05/2022	1.8	0.51	1.8
				04/12/2022	3.6	0.53	1.9
				05/03/2022	5.3	0.50	1.8
				05/10/2022	3.9	0.49	1.8
				06/07/2022	2.9	0.49	1.7
				06/14/2022	4.6	0.49	1.7
				07/12/2022	1.4 DNQ	0.49	1.7
				07/19/2022	0.60 DNQ	0.49	1.7
				08/02/2022	0.87 DNQ	0.51	1.8
				08/09/2022	0.67 DNQ	0.50	1.7
				09/13/2022	3.5	0.51	1.8
				09/20/2022	0.75 DNQ	0.50	1.8
				10/04/2022	ND	0.51	1.8
				10/11/2022	2.2	0.54	1.9
				11/01/2022	4.9	0.52	1.8
				11/09/2022	ND	0.60	2.1
				12/06/2022	ND	0.52	1.8
				12/13/2022	2.6	0.49	1.8
				Annual Mean	2.7 DNQ		
				Annual Max		7.4	
Lead wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022	1.5	0.14	0.50
				02/01/2022	1.1	0.14	0.49
				02/08/2022	1.5	0.14	0.50
				03/01/2022	1.5	0.14	0.50
				03/08/2022	0.56	0.14	0.50
				04/05/2022	1.2	0.14	0.49
				04/12/2022	1.4	0.14	0.50
				05/03/2022	1.9	0.14	0.49
				05/10/2022	1.9	0.14	0.49
				06/07/2022	1.1	0.14	0.49
				06/14/2022	1.5	0.14	0.49
				07/12/2022	1.2	0.14	0.50
				07/19/2022	0.97	0.14	0.50
				08/02/2022	0.71	0.14	0.49
				08/09/2022	0.61	0.14	0.49
				09/13/2022	0.78	0.14	0.50
				09/20/2022	0.70	0.14	0.50
				10/04/2022	0.52	0.14	0.50
				10/11/2022	1.1	0.14	0.50
				11/01/2022	1.0	0.14	0.49
				11/09/2022	0.37 DNQ	0.14	0.49
				12/06/2022	0.55	0.14	0.50
				12/13/2022	1.3	0.14	0.49
				Annual Mean	1.1 DNQ		
				Annual Max		1.9	
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	1.0	0.14	0.50
				02/01/2022	0.90	0.14	0.49
				02/08/2022	0.94	0.14	0.49

Appendix C: Summary of Biosolids Monitoring Results

				03/01/2022	1.9	0.14	0.49				
				03/08/2022	0.89	0.14	0.50				
				04/05/2022	0.50	0.14	0.49				
				04/12/2022	0.94	0.14	0.49				
				05/03/2022	1.5	0.14	0.50				
				05/10/2022	1.1	0.14	0.50				
				06/07/2022	0.82	0.14	0.49				
				06/14/2022	1.3	0.14	0.49				
				07/12/2022	0.39 DNQ	0.14	0.49				
				07/19/2022	0.17 DNQ	0.14	0.49				
				08/02/2022	0.24 DNQ	0.14	0.50				
				08/09/2022	0.19 DNQ	0.14	0.49				
				09/13/2022	0.95	0.14	0.50				
				09/20/2022	0.21 DNQ	0.14	0.50				
				10/04/2022	ND	0.14	0.49				
				10/11/2022	0.56	0.14	0.50				
				11/01/2022	1.3	0.14	0.49				
				11/09/2022	ND	0.14	0.49				
				12/06/2022	ND	0.14	0.49				
				12/13/2022	0.73	0.14	0.50				
				Annual Mean	0.74 DNQ						
				Annual Max		1.9					
Mercury	EPA 7471A	mg/kg dry weight	Plant 1 Dewatering Cake	01/04/2022	0.63	0.40	0.40				
				01/25/2022	1.0	0.40	0.40				
				02/01/2022	0.43	0.30	0.30				
				02/08/2022	0.55	0.42	0.42				
				03/01/2022	0.60	0.41	0.41				
				04/05/2022	0.55	0.39	0.39				
				04/12/2022	0.55	0.38	0.38				
				05/03/2022	0.85	0.38	0.38				
				05/10/2022	0.48	0.37	0.37				
				06/07/2022	0.73	0.37	0.37				
				06/14/2022	0.56	0.39	0.39				
				07/12/2022	0.66	0.18	0.37				
				07/19/2022	0.68	0.34	0.34				
				08/02/2022	0.64	0.33	0.33				
				08/09/2022	0.69	0.40	0.40				
				09/13/2022	0.89	0.41	0.41				
				09/20/2022	0.64	0.35	0.35				
				10/04/2022	0.85	0.37	0.37				
				10/11/2022	0.63	0.35	0.35				
				11/01/2022	0.55	0.39	0.39				
				11/09/2022	0.90	--	0.39				
				12/06/2022	0.56	0.13	0.33				
				12/13/2022	0.60	0.13	0.34				
							Annual Mean	0.66			
							Annual Max	1.0			
					EPA 7471A	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	1.0	0.36	0.36
										02/01/2022	0.42
				0.34				0.32	0.32		
			02/08/2022	0.54				0.35	0.35		
			03/01/2022	0.47				0.39	0.39		
			04/05/2022	0.40				0.32	0.32		
			04/12/2022	0.49				0.34	0.34		
			05/03/2022	0.39				0.31	0.31		
			05/10/2022	0.39				0.31	0.31		
			06/07/2022	0.39				0.35	0.35		
			06/14/2022	0.49				0.32	0.32		
			07/12/2022	0.67				0.16	0.33		
			07/19/2022	0.71				0.34	0.34		
			08/02/2022	0.54				0.34	0.34		
			08/09/2022	0.43				0.34	0.34		

Appendix C: Summary of Biosolids Monitoring Results

				09/13/2022	0.36	0.32	0.32			
				09/20/2022	0.39	0.33	0.33			
				10/04/2022	0.36	0.33	0.33			
				10/11/2022	0.43	0.38	0.38			
				11/01/2022	0.52	0.36	0.36			
				11/09/2022	0.82	--	0.43			
				12/06/2022	0.67	0.11	0.30			
				12/13/2022	0.49	0.12	0.30			
				Annual Mean	0.51					
				Annual Max	1.0					
Mercury wet weight	EPA 7471A	mg/kg	Plant 1 Dewatering Cake	01/04/2022	0.15	0.096	0.096			
				01/25/2022	0.23	0.092	0.092			
				02/01/2022	0.14	0.096	0.096			
				02/08/2022	0.13	0.099	0.099			
				03/01/2022	0.14	0.097	0.097			
				03/08/2022	0.15	0.092	0.092			
				04/05/2022	0.13	0.092	0.092			
				04/12/2022	0.13	0.089	0.089			
				05/03/2022	0.21	0.093	0.093			
				05/10/2022	0.12	0.092	0.092			
				06/07/2022	0.18	0.091	0.091			
				06/14/2022	0.14	0.096	0.096			
				07/12/2022	0.16	0.044	0.091			
				07/19/2022	0.17	0.086	0.086			
				08/02/2022	0.16	0.084	0.084			
				08/09/2022	0.17	0.099	0.099			
				09/13/2022	0.21	0.096	0.096			
				09/20/2022	0.16	0.088	0.088			
				10/04/2022	0.21	0.092	0.092			
				10/11/2022	0.15	0.084	0.084			
				11/01/2022	0.14	0.099	0.099			
				11/09/2022	0.23	--	0.099			
				12/06/2022	0.14	0.032	0.083			
				12/13/2022	0.15	0.033	0.085			
							Annual Mean	0.16		
							Annual Max	0.23		
					EPA 7471A	mg/kg	Plant 2 Dewatering Cake	01/04/2022	0.13	0.086
	01/25/2022	0.28	0.097	0.097						
	02/01/2022	0.12	0.096	0.096						
		0.099	0.091	0.091						
	02/08/2022	0.14	0.091	0.091						
	03/01/2022	0.12	0.099	0.099						
	03/08/2022	0.095	0.094	0.094						
	04/05/2022	0.11	0.088	0.088						
	04/12/2022	0.13	0.091	0.091						
	05/03/2022	0.11	0.087	0.087						
	05/10/2022	0.11	0.089	0.089						
	06/07/2022	0.11	0.098	0.098						
	06/14/2022	0.14	0.091	0.091						
	07/12/2022	0.19	0.046	0.094						
	07/19/2022	0.20	0.095	0.095						
	08/02/2022	0.15	0.095	0.095						
	08/09/2022	0.12	0.096	0.096						
	09/13/2022	0.10	0.089	0.089						
	09/20/2022	0.11	0.091	0.091						
	10/04/2022	0.10	0.091	0.091						
	10/11/2022	0.11	0.099	0.099						
	11/01/2022	0.14	0.097	0.097						
	11/09/2022	0.19	--	0.099						
	12/06/2022	0.18	0.031	0.082						
	12/13/2022	0.14	0.033	0.085						
			Annual Mean	0.14						

Appendix C: Summary of Biosolids Monitoring Results

Molybdenum	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	Annual Max	0.28		
				01/25/2022	13	0.22	2.2
				02/01/2022	9.8	0.15	1.5
				02/08/2022	17	0.21	2.1
				03/01/2022	14	0.21	2.1
				04/05/2022	16	0.21	2.1
				04/12/2022	17	0.21	2.1
				05/03/2022	14	0.20	2.0
				05/10/2022	14	0.20	2.0
				06/07/2022	15	0.20	2.0
				06/14/2022	16	0.20	2.0
				07/12/2022	14	0.20	2.1
				07/19/2022	15	0.20	2.0
				08/02/2022	17	0.20	2.0
				08/09/2022	17	0.20	2.0
				09/13/2022	17	0.21	2.1
				09/20/2022	17	0.20	2.0
				10/04/2022	18	0.20	2.0
				10/11/2022	17	0.21	2.1
	11/01/2022	16	0.19	1.9			
	11/09/2022	15	0.19	1.9			
	12/06/2022	16	0.20	2.0			
	12/13/2022	13	0.20	2.0			
	Annual Mean	15					
	Annual Max	18					
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	14	0.18	1.8
				02/01/2022	16	0.17	1.7
02/08/2022				19	0.19	1.9	
03/01/2022				16	0.19	1.9	
04/05/2022				21	0.18	1.8	
04/12/2022				20	0.19	1.9	
05/03/2022				18	0.17	1.8	
05/10/2022				20	0.18	1.8	
06/07/2022				18	0.17	1.7	
06/14/2022				20	0.17	1.7	
07/12/2022				17	0.17	1.7	
07/19/2022				12	0.17	1.7	
08/02/2022				22	0.18	1.8	
08/09/2022				18	0.17	1.7	
09/13/2022				17	0.18	1.8	
09/20/2022				17	0.18	1.8	
10/04/2022				20	0.18	1.8	
10/11/2022				16	0.19	1.9	
11/01/2022				16	0.18	1.8	
11/09/2022	14	0.21	2.1				
12/06/2022	18	0.18	1.8				
12/13/2022	13	0.18	1.8				
Annual Mean	17						
Annual Max	22						
Molybdenum wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022	3.0	0.050	0.50
				02/01/2022	3.2	0.049	0.49
				02/08/2022	4.0	0.050	0.50
				03/01/2022	3.3	0.050	0.50
				03/08/2022	4.3	0.050	0.50
				04/05/2022	3.8	0.049	0.49
				04/12/2022	4.1	0.050	0.50
				05/03/2022	3.5	0.049	0.49
				05/10/2022	3.6	0.049	0.49
				06/07/2022	3.7	0.049	0.49
				06/14/2022	4.0	0.049	0.49
				07/12/2022	3.5	0.049	0.50
				07/19/2022	3.8	0.050	0.50

Appendix C: Summary of Biosolids Monitoring Results

				08/02/2022	4.2	0.049	0.49
				08/09/2022	4.3	0.049	0.49
				09/13/2022	4.0	0.049	0.50
				09/20/2022	4.3	0.050	0.50
				10/04/2022	4.5	0.050	0.50
				10/11/2022	4.1	0.050	0.50
				11/01/2022	4.0	0.049	0.49
				11/09/2022	3.9	0.049	0.49
				12/06/2022	3.9	0.050	0.50
				12/13/2022	3.2	0.049	0.49
				Annual Mean	3.8		
				Annual Max	4.5		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	3.9	0.050	0.50
				02/01/2022	4.5	0.049	0.49
				02/08/2022	5.0	0.049	0.49
				03/01/2022	4.1	0.049	0.49
				03/08/2022	3.3	0.050	0.50
				04/05/2022	5.7	0.049	0.49
				04/12/2022	5.3	0.049	0.49
				05/03/2022	5.1	0.049	0.50
				05/10/2022	5.7	0.050	0.50
				06/07/2022	5.0	0.049	0.49
				06/14/2022	5.8	0.049	0.49
				07/12/2022	4.8	0.049	0.49
				07/19/2022	3.4	0.049	0.49
				08/02/2022	6.0	0.050	0.50
				08/09/2022	5.2	0.049	0.49
				09/13/2022	4.6	0.049	0.50
				09/20/2022	4.8	0.050	0.50
				10/04/2022	5.4	0.049	0.49
				10/11/2022	4.0	0.050	0.50
				11/01/2022	4.3	0.049	0.49
				11/09/2022	3.2	0.049	0.49
				12/06/2022	4.8	0.049	0.49
				12/13/2022	3.8	0.050	0.50
				Annual Mean	4.7		
				Annual Max	6.0		
Nickel	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/25/2022	27	0.61	2.2
				02/01/2022	19	0.43	1.5
				02/08/2022	27	0.59	2.1
				03/01/2022	27	0.60	2.1
				04/05/2022	29	0.59	2.1
				04/12/2022	28	0.59	2.1
				05/03/2022	28	0.56	2.0
				05/10/2022	26	0.56	2.0
				06/07/2022	28	0.57	2.0
				06/14/2022	31	0.56	2.0
				07/12/2022	27	0.58	2.1
				07/19/2022	28	0.56	2.0
				08/02/2022	28	0.56	2.0
				08/09/2022	31	0.57	2.0
				09/13/2022	31	0.59	2.1
				09/20/2022	31	0.56	2.0
				10/04/2022	29	0.57	2.0
				10/11/2022	36	0.58	2.1
				11/01/2022	31	0.55	1.9
				11/09/2022	29	0.55	1.9
				12/06/2022	27	0.56	2.0
				12/13/2022	27	0.56	2.0
				Annual Mean	28		
				Annual Max	36		
	EPA 6010C	mg/kg dry	Plant 2	01/25/2022	27	0.51	1.8

Appendix C: Summary of Biosolids Monitoring Results

		weight	Dewatering Cake	02/01/2022	26	0.49	1.7
				02/08/2022	29	0.54	1.9
				03/01/2022	30	0.55	1.9
				04/05/2022	28	0.51	1.8
				04/12/2022	27	0.53	1.9
				05/03/2022	26	0.50	1.8
				05/10/2022	25	0.49	1.8
				06/07/2022	24	0.49	1.7
				06/14/2022	25	0.49	1.7
				07/12/2022	27	0.49	1.7
				07/19/2022	20	0.49	1.7
				08/02/2022	30	0.51	1.8
				08/09/2022	29	0.50	1.7
				09/13/2022	23	0.51	1.8
				09/20/2022	24	0.50	1.8
				10/04/2022	25	0.51	1.8
				10/11/2022	23	0.54	1.9
				11/01/2022	24	0.52	1.8
				11/09/2022	21	0.60	2.1
				12/06/2022	24	0.52	1.8
				12/13/2022	22	0.49	1.8
				Annual Mean	25		
				Annual Max	30		
Nickel wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022	6.2	0.14	0.50
				02/01/2022	6.3	0.14	0.49
				02/08/2022	6.3	0.14	0.50
				03/01/2022	6.4	0.14	0.50
				03/08/2022	8.1	0.14	0.50
				04/05/2022	6.9	0.14	0.49
				04/12/2022	6.6	0.14	0.50
				05/03/2022	6.9	0.14	0.49
				05/10/2022	6.5	0.14	0.49
				06/07/2022	7.0	0.14	0.49
				06/14/2022	7.6	0.14	0.49
				07/12/2022	6.6	0.14	0.50
				07/19/2022	7.1	0.14	0.50
				08/02/2022	7.1	0.14	0.49
				08/09/2022	7.7	0.14	0.49
				09/13/2022	7.2	0.14	0.50
				09/20/2022	7.7	0.14	0.50
				10/04/2022	7.1	0.14	0.50
				10/11/2022	8.7	0.14	0.50
				11/01/2022	7.9	0.14	0.49
				11/09/2022	7.3	0.14	0.49
				12/06/2022	6.8	0.14	0.50
				12/13/2022	6.8	0.14	0.49
				Annual Mean	7.1		
				Annual Max	8.7		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	7.4	0.14	0.50
				02/01/2022	7.6	0.14	0.49
				02/08/2022	7.6	0.14	0.49
				03/01/2022	7.7	0.14	0.49
				03/08/2022	7.4	0.14	0.50
				04/05/2022	7.7	0.14	0.49
				04/12/2022	7.1	0.14	0.49
				05/03/2022	7.4	0.14	0.50
				05/10/2022	7.2	0.14	0.50
				06/07/2022	6.7	0.14	0.49
				06/14/2022	7.2	0.14	0.49
				07/12/2022	7.8	0.14	0.49
				07/19/2022	5.8	0.14	0.49
				08/02/2022	8.2	0.14	0.50

Appendix C: Summary of Biosolids Monitoring Results

				08/09/2022	8.1	0.14	0.49				
				09/13/2022	6.3	0.14	0.50				
				09/20/2022	6.8	0.14	0.50				
				10/04/2022	6.8	0.14	0.49				
				10/11/2022	6.0	0.14	0.50				
				11/01/2022	6.4	0.14	0.49				
				11/09/2022	4.8	0.14	0.49				
				12/06/2022	6.5	0.14	0.49				
				12/13/2022	6.3	0.14	0.50				
				Annual Mean	7.0						
				Annual Max	8.2						
Selenium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/25/2022	11	1.1	2.2				
				02/01/2022	6.2	0.74	1.5				
				02/08/2022	7.2	1.1	2.1				
				03/01/2022	7.7	1.1	2.1				
				04/05/2022	8.0	1.0	2.1				
				04/12/2022	9.3	1.1	2.1				
				05/03/2022	8.1	0.97	2.0				
				05/10/2022	6.8	0.96	2.0				
				06/07/2022	6.5	0.97	2.0				
				06/14/2022	7.7	0.97	2.0				
				07/12/2022	8.2	1.0	2.1				
				07/19/2022	7.6	1.0	2.0				
				08/02/2022	7.6	0.96	2.0				
				08/09/2022	8.1	0.97	2.0				
				09/13/2022	9.3	1.1	2.1				
				09/20/2022	10	1.0	2.0				
				10/04/2022	6.5	1.0	2.0				
				10/11/2022	8.3	1.0	2.1				
				11/01/2022	8.6	0.94	1.9				
				11/09/2022	9.0	0.94	1.9				
				12/06/2022	7.3	1.0	2.0				
				12/13/2022	9.2	0.96	2.0				
								Annual Mean	8.1		
								Annual Max	11		
					EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	11	0.92	1.8
02/01/2022	9.8	0.84	1.7								
02/08/2022	9.7	0.93	1.9								
03/01/2022	8.6	0.94	1.9								
04/05/2022	9.1	0.88	1.8								
04/12/2022	9.1	0.91	1.9								
05/03/2022	9.9	0.89	1.8								
05/10/2022	7.8	0.88	1.8								
06/07/2022	8.5	0.85	1.7								
06/14/2022	8.8	0.85	1.7								
07/12/2022	9.5	0.84	1.7								
07/19/2022	6.7	0.85	1.7								
08/02/2022	9.8	0.91	1.8								
08/09/2022	8.5	0.85	1.7								
09/13/2022	8.0	0.87	1.8								
09/20/2022	9.7	0.90	1.8								
10/04/2022	8.4	0.87	1.8								
10/11/2022	8.9	0.97	1.9								
11/01/2022	9.0	0.90	1.8								
11/09/2022	8.6	1.0	2.1								
12/06/2022	9.3	0.89	1.8								
12/13/2022	8.8	0.88	1.8								
				Annual Mean				9.0			
				Annual Max				11			
Selenium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022				2.5	0.25	0.50	
				02/01/2022	2.0	0.24	0.49				
				02/08/2022	1.7	0.25	0.50				

Appendix C: Summary of Biosolids Monitoring Results

				03/01/2022	1.8	0.25	0.50
				03/08/2022	2.3	0.25	0.50
				04/05/2022	1.9	0.24	0.49
				04/12/2022	2.2	0.25	0.50
				05/03/2022	2.0	0.24	0.49
				05/10/2022	1.7	0.24	0.49
				06/07/2022	1.6	0.24	0.49
				06/14/2022	1.9	0.24	0.49
				07/12/2022	2.0	0.25	0.50
				07/19/2022	1.9	0.25	0.50
				08/02/2022	1.9	0.24	0.49
				08/09/2022	2.0	0.24	0.49
				09/13/2022	2.2	0.25	0.50
				09/20/2022	2.5	0.25	0.50
				10/04/2022	1.6	0.25	0.50
				10/11/2022	2.0	0.25	0.50
				11/01/2022	2.2	0.24	0.49
				11/09/2022	2.3	0.24	0.49
				12/06/2022	1.8	0.25	0.50
				12/13/2022	2.3	0.24	0.49
				Annual Mean	2.0		
				Annual Max	2.5		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	2.9	0.25	0.50
				02/01/2022	2.8	0.24	0.49
				02/08/2022	2.5	0.24	0.49
				03/01/2022	2.2	0.24	0.49
				03/08/2022	1.9	0.25	0.50
				04/05/2022	2.5	0.24	0.49
				04/12/2022	2.4	0.24	0.49
				05/03/2022	2.8	0.25	0.50
				05/10/2022	2.2	0.25	0.50
				06/07/2022	2.4	0.24	0.49
				06/14/2022	2.5	0.24	0.49
				07/12/2022	2.7	0.24	0.49
				07/19/2022	1.9	0.24	0.49
				08/02/2022	2.7	0.25	0.50
				08/09/2022	2.4	0.24	0.49
				09/13/2022	2.2	0.24	0.50
				09/20/2022	2.7	0.25	0.50
				10/04/2022	2.3	0.24	0.49
				10/11/2022	2.3	0.25	0.50
				11/01/2022	2.4	0.24	0.49
				11/09/2022	2.0	0.24	0.49
				12/06/2022	2.5	0.24	0.49
				12/13/2022	2.5	0.25	0.50
				Annual Mean	2.4		
				Annual Max	2.9		
Silver	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/25/2022	2.1	0.052	1.7
				02/01/2022	1.9	0.037	1.2
				02/08/2022	3.2	0.051	1.7
				03/01/2022	2.3	0.051	1.7
				04/05/2022	2.6	0.050	1.6
				04/12/2022	2.8	0.051	1.7
				05/03/2022	2.7	0.048	1.6
				05/10/2022	2.2	0.048	1.6
				06/07/2022	1.9	0.049	1.6
				06/14/2022	2.5	0.048	1.6
				07/12/2022	2.3	0.049	1.6
				07/19/2022	2.9	0.048	1.6
				08/02/2022	3.1	0.048	1.6
				08/09/2022	3.1	0.049	1.6
				09/13/2022	2.8	0.051	1.7

Appendix C: Summary of Biosolids Monitoring Results

				09/20/2022	2.6	0.048	1.6
				10/04/2022	3.5	0.049	1.6
				10/11/2022	2.7	0.050	1.7
				11/01/2022	3.2	0.047	1.6
				11/09/2022	2.4	0.047	1.5
				12/06/2022	3.0	0.048	1.6
				12/13/2022	2.8	0.048	1.6
				Annual Mean	2.7		
				Annual Max	3.5		
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	1.9	0.044	1.5
				02/01/2022	2.7	0.042	1.4
				02/08/2022	2.3	0.046	1.5
				03/01/2022	1.6	0.047	1.5
				04/05/2022	1.9	0.044	1.4
				04/12/2022	1.8	0.045	1.5
				05/03/2022	1.5	0.043	1.4
				05/10/2022	1.9	0.042	1.4
				06/07/2022	1.1 DNQ	0.042	1.4
				06/14/2022	1.6	0.042	1.4
				07/12/2022	1.4	0.042	1.4
				07/19/2022	1.2 DNQ	0.042	1.4
				08/02/2022	2.1	0.043	1.4
				08/09/2022	1.6	0.043	1.4
				09/13/2022	1.5	0.044	1.5
				09/20/2022	0.86 DNQ	0.043	1.4
				10/04/2022	2.1	0.044	1.4
				10/11/2022	1.7	0.047	1.6
				11/01/2022	1.9	0.045	1.5
				11/09/2022	1.5 DNQ	0.052	1.7
				12/06/2022	2.2	0.044	1.4
				12/13/2022	2.2	0.042	1.4
				Annual Mean	1.8 DNQ		
				Annual Max		2.7	
Silver wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022	0.47	0.012	0.40
				02/01/2022	0.61	0.012	0.39
				02/08/2022	0.76	0.012	0.40
				03/01/2022	0.55	0.012	0.40
				03/08/2022	0.48	0.012	0.40
				04/05/2022	0.62	0.012	0.39
				04/12/2022	0.67	0.012	0.40
				05/03/2022	0.67	0.012	0.39
				05/10/2022	0.56	0.012	0.39
				06/07/2022	0.46	0.012	0.39
				06/14/2022	0.61	0.012	0.39
				07/12/2022	0.55	0.012	0.40
				07/19/2022	0.73	0.012	0.40
				08/02/2022	0.78	0.012	0.39
				08/09/2022	0.77	0.012	0.39
				09/13/2022	0.67	0.012	0.40
				09/20/2022	0.64	0.012	0.40
				10/04/2022	0.86	0.012	0.40
				10/11/2022	0.65	0.012	0.40
				11/01/2022	0.82	0.012	0.40
				11/09/2022	0.61	0.012	0.39
				12/06/2022	0.74	0.012	0.40
				12/13/2022	0.69	0.012	0.39
				Annual Mean	0.65		
				Annual Max	0.86		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	0.53	0.012	0.40
				02/01/2022	0.78	0.012	0.39
				02/08/2022	0.60	0.012	0.39
				03/01/2022	0.42	0.012	0.39

Appendix C: Summary of Biosolids Monitoring Results

				03/08/2022	0.64	0.012	0.40
				04/05/2022	0.51	0.012	0.39
				04/12/2022	0.47	0.012	0.39
				05/03/2022	0.43	0.012	0.40
				05/10/2022	0.54	0.012	0.40
				06/07/2022	0.30 DNQ	0.012	0.39
				06/14/2022	0.44	0.012	0.39
				07/12/2022	0.41	0.012	0.39
				07/19/2022	0.35 DNQ	0.012	0.40
				08/02/2022	0.59	0.012	0.40
				08/09/2022	0.46	0.012	0.39
				09/13/2022	0.41	0.012	0.40
				09/20/2022	0.24 DNQ	0.012	0.40
				10/04/2022	0.58	0.012	0.39
				10/11/2022	0.44	0.012	0.40
				11/01/2022	0.50	0.012	0.39
				11/09/2022	0.35 DNQ	0.012	0.40
				12/06/2022	0.60	0.012	0.39
				12/13/2022	0.63	0.012	0.40
				Annual Mean	0.49 DNQ		
				Annual Max	0.78		
Thallium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	07/12/2022	ND	0.49	1.0
				Annual Mean	<0.49		
				Annual Max	<0.49		
Thallium	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	07/12/2022	1.4	0.42	0.84
				Annual Mean	1.4		
				Annual Max	1.4		
Thallium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	07/12/2022	ND	0.12	0.25
				Annual Mean	<0.12		
				Annual Max	<0.12		
Thallium wet weight	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	07/12/2022	0.41	0.12	0.24
				Annual Mean	0.41		
				Annual Max	0.41		
Vanadium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	07/12/2022	66	0.11	1.0
				Annual Mean	66		
				Annual Max	66		
Vanadium	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	07/12/2022	140	0.091	0.84
				Annual Mean	140		
				Annual Max	140		
Vanadium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	07/12/2022	16	0.027	0.25
				Annual Mean	16		
				Annual Max	16		
Vanadium wet weight	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	07/12/2022	40	0.026	0.24
				Annual Mean	40		
				Annual Max	40		
Zinc	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/25/2022	830	3.8	22
				02/01/2022	550	2.6	15
				02/08/2022	800	3.6	21
				03/01/2022	810	3.7	21
				04/05/2022	800	3.5	21
				04/12/2022	800	3.6	21
				05/03/2022	770	3.4	20
				05/10/2022	720	3.3	20
				06/07/2022	730	3.4	20
				06/14/2022	810	3.3	20
				07/12/2022	740	3.5	21
				07/19/2022	840	3.4	20
				08/02/2022	800	3.3	20
				08/09/2022	850	3.4	20
				09/13/2022	760	3.6	21
09/20/2022	880	3.4	20				
10/04/2022	810	3.4	20				

Appendix C: Summary of Biosolids Monitoring Results

				10/11/2022	790	3.5	21
				11/01/2022	780	3.3	19
				11/09/2022	750	3.3	19
				12/06/2022	770	3.4	20
				12/13/2022	760	3.4	20
				Annual Mean	780		
				Annual Max	880		
	EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/25/2022	660	3.1	18
				02/01/2022	660	2.9	17
				02/08/2022	730	3.2	19
				03/01/2022	700	3.3	19
				04/05/2022	660	3.1	18
				04/12/2022	680	3.2	19
				05/03/2022	670	3.0	18
				05/10/2022	640	3.0	18
				06/07/2022	630	3.0	17
				06/14/2022	710	3.0	17
				07/12/2022	700	2.9	17
				07/19/2022	530	3.0	17
				08/02/2022	800	3.1	18
				08/09/2022	740	3.0	17
				09/13/2022	620	3.1	18
				09/20/2022	720	3.0	18
				10/04/2022	730	3.1	18
				10/11/2022	660	3.3	19
				11/01/2022	670	3.1	18
				11/09/2022	600	3.7	21
				12/06/2022	700	3.1	18
				12/13/2022	670	3.0	18
				Annual Mean	680		
				Annual Max	800		
Zinc wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/25/2022	190	0.86	5.0
				02/01/2022	180	0.84	4.9
				02/08/2022	190	0.85	5.0
				03/01/2022	190	0.86	5.0
				03/08/2022	180	0.86	5.0
				04/05/2022	190	0.84	4.9
				04/12/2022	190	0.86	5.0
				05/03/2022	190	0.84	4.9
				05/10/2022	180	0.84	4.9
				06/07/2022	180	0.84	4.9
				06/14/2022	200	0.83	4.9
				07/12/2022	180	0.85	5.0
				07/19/2022	210	0.85	5.0
				08/02/2022	200	0.84	4.9
				08/09/2022	210	0.84	4.9
				09/13/2022	180	0.85	5.0
				09/20/2022	220	0.85	5.0
				10/04/2022	200	0.85	5.0
				10/11/2022	190	0.85	5.0
				11/01/2022	200	0.85	4.9
				11/09/2022	190	0.84	4.9
				12/06/2022	190	0.85	5.0
				12/13/2022	190	0.84	4.9
				Annual Mean	190		
				Annual Max	220		
	EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/25/2022	180	0.85	5.0
				02/01/2022	190	0.84	4.9
				02/08/2022	190	0.84	4.9
				03/01/2022	180	0.84	4.9
				03/08/2022	190	0.85	5.0
				04/05/2022	180	0.84	4.9

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					04/12/2022	180	0.84	4.9
					05/03/2022	190	0.85	5.0
					05/10/2022	180	0.85	5.0
					06/07/2022	180	0.84	4.9
					06/14/2022	200	0.84	4.9
					07/12/2022	200	0.84	4.9
					07/19/2022	150	0.85	4.9
					08/02/2022	220	0.85	5.0
					08/09/2022	210	0.84	4.9
					09/13/2022	170	0.85	5.0
					09/20/2022	200	0.85	5.0
					10/04/2022	200	0.85	4.9
					10/11/2022	170	0.85	5.0
					11/01/2022	180	0.84	4.9
					11/09/2022	140	0.85	4.9
					12/06/2022	190	0.83	4.9
					12/13/2022	190	0.85	5.0
					Annual Mean	190		
					Annual Max	220		
Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	71	1700
					01/25/2022	ND	61	740
					Annual Mean	<71		
					Annual Max	<71		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	55	620	
				Annual Mean	<55			
				Annual Max	<55			
	1,1,1,2-Tetrachloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	17	410
					01/25/2022	ND	14	170
					Annual Mean	<17		
					Annual Max	<17		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	15	350	
				01/25/2022	ND	15	170	
				Annual Mean	<15			
				Annual Max	<15			
	1,1,1-Trichloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	67	670
					01/25/2022	ND	200	740
					Annual Mean	<200		
					Annual Max	<200		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	170	620	
				Annual Mean	<170			
				Annual Max	<170			
1,1,1-Trichloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	16	160	
				01/25/2022	ND	46	170	
				Annual Mean	<46			
				Annual Max	<46			
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	13	140		
			01/25/2022	ND	46	170		
			Annual Mean	<46				
			Annual Max	<46				
1,1,2,2-Tetrachloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	120	670	
				01/25/2022	ND	87	740	
				Annual Mean	<120			
				Annual Max	<120			
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	73	620		
			Annual Mean	<73				
			Annual Max	<73				
1,1,2,2-Tetrachloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	29	160	
				01/25/2022	ND	20	170	
				Annual Mean	<29			
				Annual Max	<29			
EPA 8260B	µg/kg	Plant 2 Dewatering	01/04/2022	ND	25	140		
			01/25/2022	ND	20	170		

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			Cake	Annual Mean	<25		
1,1,2-Trichloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<25		
				01/04/2022	ND	84	670
				01/25/2022	ND	83	740
				Annual Mean	<84		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<84		
				01/25/2022	ND	70	620
1,1,2-Trichloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<70		
				Annual Max	<70		
				01/04/2022	ND	20	160
				01/25/2022	ND	19	170
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<20		
				Annual Max	<20		
1,1-Dichloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	80	670
				01/25/2022	ND	150	740
				Annual Mean	<150		
				Annual Max	<150		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	130	620
				Annual Mean	<130		
1,1-Dichloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<130		
				01/04/2022	ND	19	160
				01/25/2022	ND	35	170
				Annual Mean	<35		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<35		
				01/04/2022	ND	16	140
1,1-Dichloroethene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/25/2022	ND	130	620
				Annual Mean	<130		
				Annual Max	<130		
				01/04/2022	ND	160	1700
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	150	740
				Annual Mean	<160		
1,1-Dichloroethene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<160		
				01/04/2022	ND	39	410
				01/25/2022	ND	35	170
				Annual Mean	<39		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<39		
				01/04/2022	ND	33	350
1,1-Dichloropropene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/25/2022	ND	35	170
				Annual Mean	<35		
				Annual Max	<35		
				01/04/2022	ND	80	670
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	140	740
				Annual Mean	<140		
1,1-Dichloropropene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<140		
				01/25/2022	ND	120	620
				Annual Mean	<120		
				Annual Max	<120		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	19	160
				01/25/2022	ND	33	170
1,1-Dichloropropene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<33		
				Annual Max	<33		
				01/04/2022	ND	16	140
				01/25/2022	ND	33	170
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<33		
				Annual Max	<33		

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1,2,3-Trichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	880	1700
				01/25/2022	ND	240	740
				Annual Mean	<880		
				Annual Max	<880		
				01/25/2022	ND	210	620
1,2,3-Trichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	210	410
				01/25/2022	ND	55	170
				Annual Mean	<210		
				Annual Max	<210		
				01/04/2022	ND	180	350
1,2,3-Trichloropropane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	130	670
				01/25/2022	ND	140	740
				Annual Mean	<140		
				Annual Max	<140		
				01/25/2022	ND	120	620
1,2,3-Trichloropropane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	31	160
				01/25/2022	ND	32	170
				Annual Mean	<32		
				Annual Max	<32		
				01/04/2022	ND	26	140
1,2,4-Trichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	350	1700
				01/25/2022	ND	140	740
				Annual Mean	<350		
				Annual Max	<350		
				01/25/2022	ND	120	620
1,2,4-Trichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	83	410
				01/25/2022	ND	32	170
				Annual Mean	<83		
				Annual Max	<83		
				01/04/2022	ND	71	350
1,2,4-Trimethylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	220	670
				01/25/2022	96 DNQ	92	740
				Annual Mean	160 DNQ		
				Annual Max	96 DNQ		
				01/25/2022	ND	81	620
1,2,4-Trimethylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	53	160
				01/25/2022	22 DNQ	21	170
				Annual Mean	38 DNQ		
				Annual Max	22 DNQ		
				01/04/2022	ND	45	140
1,2-Dibromo-3-	EPA 8260B	µg/kg dry	Plant 1 Dewatering	01/04/2022	ND	1100	1700
				01/25/2022	ND	260	1500
				Annual Mean	<45		
				Annual Max	<45		
				01/04/2022	ND	45	140

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chloropropane			Cake	Annual Mean	<1100		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<1100		
				01/25/2022	ND	220	1300
				Annual Mean	<220		
				Annual Max	<220		
1,2-Dibromo-3-chloropropane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	250	410
				01/25/2022	ND	59	340
				Annual Mean	<250		
				Annual Max	<250		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	210	350	
			01/25/2022	ND	60	350	
			Annual Mean	<210			
			Annual Max	<210			
1,2-Dibromoethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	71	170
				01/25/2022	ND	170	740
				Annual Mean	<170		
				Annual Max	<170		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	140	620	
						Annual Mean	<140
			Annual Max	<140			
1,2-Dibromoethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	17	41
				01/25/2022	ND	39	170
				Annual Mean	<39		
				Annual Max	<39		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	14	35	
			01/25/2022	ND	39	170	
			Annual Mean	<39			
			Annual Max	<39			
1,2-Dichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	88	670
				01/25/2022	ND	280	740
				Annual Mean	<280		
				Annual Max	<280		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	240	620	
						Annual Mean	<240
			Annual Max	<240			
1,2-Dichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	21	160
				01/25/2022	ND	65	170
				Annual Mean	<65		
				Annual Max	<65		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	18	140	
			01/25/2022	ND	65	170	
			Annual Mean	<65			
			Annual Max	<65			
1,2-Dichloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	110	670
				01/25/2022	ND	74	740
				Annual Mean	<110		
				Annual Max	<110		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	62	620	
						Annual Mean	<62
			Annual Max	<62			
1,2-Dichloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	25	160
				01/25/2022	ND	17	170
				Annual Mean	<25		
				Annual Max	<25		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	21	140	
			01/25/2022	ND	17	170	
			Annual Mean	<21			
			Annual Max	<21			
1,2-Dichloropropane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	97	670
				01/25/2022	ND	140	740
							Annual Mean
			Annual Max	<140			

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	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	120	620
				Annual Mean	<120		
				Annual Max	<120		
1,2-Dichloropropane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	23	160
				01/25/2022	ND	32	170
				Annual Mean	<32		
				Annual Max	<32		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	20	140
				01/25/2022	ND	32	170
	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/25/2022	ND	48	740
				Annual Mean	<48		
1,3,5-Trichlorobenzene	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	40	620
				Annual Mean	<40		
				Annual Max	<40		
				01/25/2022	ND	11	170
	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/25/2022	ND	11	170
				Annual Mean	<11		
1,3,5-Trimethylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	120	670
				01/25/2022	ND	120	740
				Annual Mean	<120		
				Annual Max	<120		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	99	620
				Annual Mean	<99		
1,3,5-Trimethylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	29	160
				01/25/2022	ND	27	170
				Annual Mean	<29		
				Annual Max	<29		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	25	140
				01/25/2022	ND	27	170
	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	92	670
				01/25/2022	ND	120	740
1,3-Dichlorobenzene	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	100	620
				Annual Mean	<100		
				Annual Max	<100		
				01/04/2022	ND	22	160
	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/25/2022	ND	28	170
				Annual Mean	<28		
1,3-Dichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	18	140
				01/25/2022	ND	28	170
				Annual Mean	<28		
				Annual Max	<28		
	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	80	670
				01/25/2022	ND	83	740
1,3-Dichloropropane	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	70	620
				Annual Mean	<70		
				Annual Max	<70		
				01/04/2022	ND	19	160
	EPA 8260B	µg/kg	Plant 1 Dewatering	01/25/2022	ND	19	170
				01/04/2022	ND	19	160

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ane wet weight	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<19		
				Annual Max	<19		
				01/04/2022	ND	16	140
				01/25/2022	ND	19	170
				Annual Mean	<19		
Annual Max	<19						
1,4-Dichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	84	670
				01/25/2022	ND	74	740
				Annual Mean	<84		
				Annual Max	<84		
				01/25/2022	ND	62	620
Annual Mean	<62						
Annual Max	<62						
1,4-Dichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	20	160
				01/25/2022	ND	17	170
				Annual Mean	<20		
				Annual Max	<20		
				01/04/2022	ND	17	140
01/25/2022	ND	17	170				
Annual Mean	<17						
Annual Max	<17						
2,2-Dichloropropane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	140	670
				01/25/2022	ND	180	740
				Annual Mean	<180		
				Annual Max	<180		
				01/25/2022	ND	150	620
Annual Mean	<150						
Annual Max	<150						
2,2-Dichloropropane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	33	160
				01/25/2022	ND	42	170
				Annual Mean	<42		
				Annual Max	<42		
				01/04/2022	ND	29	140
01/25/2022	ND	42	170				
Annual Mean	<42						
Annual Max	<42						
2-Chlorotoluene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	80	1700
				01/25/2022	ND	79	740
				Annual Mean	<80		
				Annual Max	<80		
				01/25/2022	ND	66	620
Annual Mean	<66						
Annual Max	<66						
2-Chlorotoluene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	19	410
				01/25/2022	ND	18	170
				Annual Mean	<19		
				Annual Max	<19		
				01/04/2022	ND	17	350
01/25/2022	ND	18	170				
Annual Mean	<18						
Annual Max	<18						
2-Hexanone wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	230	810
				01/25/2022	ND	150	690
				Annual Mean	<230		
				Annual Max	<230		
				01/04/2022	ND	200	700
01/25/2022	ND	150	700				
Annual Mean	<200						
Annual Max	<200						
4-Chlorotoluene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	140	1700
				01/25/2022	ND	70	740
				Annual Mean	<140		

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	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max 01/25/2022	<140 ND	59	620
				Annual Mean	<59		
				Annual Max	<59		
4-Chlorotoluene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	34	410
				01/25/2022	ND	16	170
				Annual Mean	<34		
				Annual Max	<34		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	29	350	
			01/25/2022	ND	16	170	
			Annual Mean	<29			
			Annual Max	<29			
Acrolein	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/25/2022	ND	3400	15000
				Annual Mean	<3400		
				Annual Max	<3400		
				EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022
				Annual Mean	<2900		
				Annual Max	<2900		
Acrolein wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/25/2022	ND	790	3400
				Annual Mean	<790		
				Annual Max	<790		
				EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/25/2022
				Annual Mean	<800		
				Annual Max	<800		
Acrylonitrile	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/25/2022	ND	790	15000
				Annual Mean	<790		
				Annual Max	<790		
				EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022
				Annual Mean	<660		
				Annual Max	<660		
Acrylonitrile wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/25/2022	ND	180	3400
				Annual Mean	<180		
				Annual Max	<180		
				EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/25/2022
				Annual Mean	<180		
				Annual Max	<180		
Benzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	92	340
				01/25/2022	ND	140	740
				Annual Mean	<140		
				Annual Max	<140		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	110	620	
			Annual Mean	<110			
			Annual Max	<110			
			Benzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022
01/25/2022	ND	31					170
Annual Mean	<31						
Annual Max	<31						
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	19	70	
			01/25/2022	ND	31	170	
			Annual Mean	<31			
			Annual Max	<31			
Bromobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	97	1700
				01/25/2022	ND	57	740
				Annual Mean	<97		
				Annual Max	<97		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	48	620	
			Annual Mean	<48			
			Annual Max	<48			
			Bromobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022
01/25/2022	ND	13					170
Annual Mean	<23						
Annual Max	<23						

Appendix C: Summary of Biosolids Monitoring Results

	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	19	350
				01/25/2022	ND	13	170
				Annual Mean	<19		
				Annual Max	<19		
Bromochloro methane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	100	1700
				01/25/2022	ND	140	740
				Annual Mean	<140		
				Annual Max	<140		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	120	620
				Annual Mean	<120		
				Annual Max	<120		
Bromochloro methane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	24	410
				01/25/2022	ND	32	170
				Annual Mean	<32		
				Annual Max	<32		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	21	350
				01/25/2022	ND	33	170
				Annual Mean	<33		
				Annual Max	<33		
Bromodichlor omethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	80	670
				01/25/2022	ND	280	740
				Annual Mean	<280		
				Annual Max	<280		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	240	620
				Annual Mean	<240		
				Annual Max	<240		
Bromodichlor omethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	19	160
				01/25/2022	ND	65	170
				Annual Mean	<65		
				Annual Max	<65		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	16	140
				01/25/2022	ND	66	170
				Annual Mean	<66		
				Annual Max	<66		
Bromoform	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	97	1700
				01/25/2022	ND	480	740
				Annual Mean	<480		
				Annual Max	<480		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	400	620
				Annual Mean	<400		
				Annual Max	<400		
Bromoform wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	23	410
				01/25/2022	ND	110	170
				Annual Mean	<110		
				Annual Max	<110		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	20	350
				01/25/2022	ND	110	170
				Annual Mean	<110		
				Annual Max	<110		
Bromometha ne	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	1400	3400
				01/25/2022	ND	140	1500
				Annual Mean	<1400		
				Annual Max	<1400		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	120	1300
				Annual Mean	<120		
				Annual Max	<120		
Bromometha ne wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	330	810
				01/25/2022	ND	32	340
				Annual Mean	<330		
				Annual Max	<330		
	EPA 8260B	µg/kg	Plant 2 Dewatering	01/04/2022	ND	280	700
				01/25/2022	ND	33	350

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			Cake	Annual Mean	<280		
Carbon tetrachloride	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<280		
				01/04/2022	ND	63	1700
				01/25/2022	ND	52	740
				Annual Mean	<63		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<63		
				01/25/2022	ND	44	620
Carbon tetrachloride wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<44		
				Annual Max	<44		
				01/04/2022	ND	15	410
				01/25/2022	ND	12	170
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<15		
				Annual Max	<15		
Chlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	84	340
				01/25/2022	ND	39	740
				Annual Mean	<84		
				Annual Max	<84		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	33	620
				Annual Mean	<33		
Chlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<33		
				01/04/2022	ND	20	81
				01/25/2022	ND	9.0	170
				Annual Mean	<20		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<20		
				01/04/2022	ND	17	70
Chloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/25/2022	ND	9.1	170
				Annual Mean	<17		
				Annual Max	<17		
				01/04/2022	ND	220	1700
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	520	1500
				Annual Mean	<520		
Chloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<520		
				01/25/2022	ND	440	1300
				Annual Mean	<440		
				Annual Max	<440		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	52	410
				01/25/2022	ND	120	340
Chloroform	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<120		
				Annual Max	<120		
				01/04/2022	ND	45	350
				01/25/2022	ND	120	350
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<120		
				Annual Max	<120		
Chloroform wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	71	670
				01/25/2022	ND	140	740
				Annual Mean	<140		
				Annual Max	<140		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	120	620
				Annual Mean	<120		
Chloroform wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<120		
				01/04/2022	ND	17	160
				01/25/2022	ND	32	170
				Annual Mean	<32		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<32		
				01/04/2022	ND	15	140
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/25/2022	ND	32	170	
			Annual Mean	<32			
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<32			
			Annual Max	<32			

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Chloromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	170	1700
				01/25/2022	ND	150	1500
				Annual Mean	<170		
				Annual Max	<170		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	130	1300
				Annual Mean	<130		
Chloromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	41	410
				01/25/2022	ND	34	340
				Annual Mean	<41		
				Annual Max	<41		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	35	350
				01/25/2022	ND	35	350
cis-1,2-Dichloroethene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	130	670
				01/25/2022	ND	66	380
				Annual Mean	<130		
				Annual Max	<130		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	55	320
				Annual Mean	<55		
cis-1,2-Dichloroethene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	31	160
				01/25/2022	ND	15	86
				Annual Mean	<31		
				Annual Max	<31		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	27	140
				01/25/2022	ND	15	87
cis-1,3-Dichloropropene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	71	670
				01/25/2022	ND	360	920
				Annual Mean	<360		
				Annual Max	<360		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	300	770
				Annual Mean	<300		
cis-1,3-Dichloropropene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	17	160
				01/25/2022	ND	82	210
				Annual Mean	<82		
				Annual Max	<82		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	14	140
				01/25/2022	ND	83	210
Dibromochloromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	80	670
				01/25/2022	ND	100	740
				Annual Mean	<100		
				Annual Max	<100		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	84	620
				Annual Mean	<84		
Dibromochloromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	19	160
				01/25/2022	ND	23	170
				Annual Mean	<23		
				Annual Max	<23		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	37 DNQ	16	140
				01/25/2022	ND	23	170
Dibromomethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering	01/04/2022	ND	92	670
				01/25/2022	ND	92	740
				Annual Mean	<92		
				Annual Max	<92		

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			Cake	Annual Mean	<92		
				Annual Max	<92		
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	77	620
				Annual Mean	<77		
				Annual Max	<77		
Dibromomethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	22	160
				01/25/2022	ND	21	170
				Annual Mean	<22		
		Annual Max	<22				
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	19	140
				01/25/2022	ND	21	170
Annual Mean				<21			
	Annual Max	<21					
Dichlorodifluoromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	140	1700
				01/25/2022	ND	200	1500
				Annual Mean	<200		
		Annual Max	<200				
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	170	1300
				Annual Mean	<170		
Annual Max				<170			
Dichlorodifluoromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	33	410
				01/25/2022	ND	45	340
				Annual Mean	<45		
		Annual Max	<45				
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	28	350
				01/25/2022	ND	46	350
Annual Mean				<46			
	Annual Max	<46					
Ethylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	97	670
				01/25/2022	ND	100	740
				Annual Mean	<100		
		Annual Max	<100				
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	88	620
				Annual Mean	<88		
Annual Max				<88			
Ethylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	23	160
				01/25/2022	ND	23	170
				Annual Mean	<23		
		Annual Max	<23				
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	20	140
				01/25/2022	ND	24	170
Annual Mean				<24			
	Annual Max	<24					
Hexachlorobutadiene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	230 DNQ	160	1700
				01/25/2022	ND	150	740
				Annual Mean	190 DNQ		
		Annual Max	230 DNQ				
	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	120	620
				Annual Mean	<120		
Annual Max				<120			
Hexachlorobutadiene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	55 DNQ	38	410
				01/25/2022	ND	34	170
				Annual Mean	44 DNQ		
		Annual Max	55 DNQ				
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	33 DNQ	32	350
				01/25/2022	ND	34	170
Annual Mean				34 DNQ			
	Annual Max	33 DNQ					
Isobutyl alcohol	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/25/2022	ND	4400	30000
				Annual Mean	<4400		
				Annual Max	<4400		
EPA 8260B	µg/kg dry	Plant 2	01/25/2022	ND	3700	26000	

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			Dewatering Cake	Annual Mean	<3700		
				Annual Max	<3700		
Isobutyl alcohol wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/25/2022	ND	1000	6900
				Annual Mean	<1000		
				Annual Max	<1000		
	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/25/2022	ND	1000	7000
Annual Mean				<1000			
			Annual Max	<1000			
Isopropylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	110	670
				01/25/2022	ND	87	740
				Annual Mean	<110		
				Annual Max	<110		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	73	620	
			Annual Mean	<73			
			Annual Max	<73			
Isopropylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	25	160
				01/25/2022	ND	20	170
				Annual Mean	<25		
				Annual Max	<25		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	22	140	
			01/25/2022	ND	20	170	
			Annual Mean	<22			
			Annual Max	<22			
m,p-Xylenes	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	210	1000
				01/25/2022	ND	240	740
				Annual Mean	<240		
				Annual Max	<240		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	200	620	
			Annual Mean	<200			
			Annual Max	<200			
m,p-Xylenes wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	49	240
				01/25/2022	ND	54	170
				Annual Mean	<54		
				Annual Max	<54		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	42	210	
			01/25/2022	ND	54	170	
			Annual Mean	<54			
			Annual Max	<54			
Methyl ethyl ketone	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	3500	6700
				01/25/2022	ND	2300	6100
				Annual Mean	<3500		
				Annual Max	<3500		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	1900	5100	
			Annual Mean	<1900			
			Annual Max	<1900			
Methyl ethyl ketone wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	840	1600
				01/25/2022	ND	520	1400
				Annual Mean	<840		
				Annual Max	<840		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	720	1400	
			01/25/2022	ND	530	1400	
			Annual Mean	<720			
			Annual Max	<720			
Methylene Chloride	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	1000	3400
				01/25/2022	ND	210	740
				Annual Mean	<1000		
				Annual Max	<1000		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	180	620	
			Annual Mean	<180			
			Annual Max	<180			
Methylene Chloride wet	EPA 8260B	µg/kg	Plant 1 Dewatering	01/04/2022	ND	240	810
				01/25/2022	ND	48	170

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weight	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<240		
				Annual Max	<240		
				01/04/2022	ND	210	700
				01/25/2022	ND	48	170
MIBK	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<210		
				Annual Max	<210		
				01/04/2022	ND	800	3400
				01/25/2022	ND	1800	3900
MIBK wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<1800		
				Annual Max	<1800		
				01/04/2022	ND	190	810
				01/25/2022	ND	420	900
MIBK wet weight	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<420		
				Annual Max	<420		
				01/04/2022	ND	160	700
				01/25/2022	ND	420	900
Naphthalene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<420		
				Annual Max	<420		
				01/25/2022	ND	520	1500
				Annual Mean	<520		
Naphthalene wet weight	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<440		
				Annual Max	<440		
				01/25/2022	ND	440	1300
				Annual Mean	<440		
Naphthalene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<120		
				Annual Max	<120		
				01/25/2022	ND	120	340
				Annual Mean	<120		
Naphthalene wet weight	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<120		
				Annual Max	<120		
				01/25/2022	ND	120	350
				Annual Mean	<120		
n- Butylbenzen e	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<120		
				Annual Max	<120		
				01/04/2022	ND	110	1700
				01/25/2022	ND	240	740
n- Butylbenzen e	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<240		
				Annual Max	<240		
				01/25/2022	ND	210	620
				Annual Mean	<210		
n- Butylbenzen e wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<210		
				Annual Max	<210		
				01/04/2022	ND	26	410
				01/25/2022	ND	56	170
n- Butylbenzen e wet weight	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<56		
				Annual Max	<56		
				01/04/2022	22 DNQ	22	350
				01/25/2022	ND	56	170
n- Propylbenze ne	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	39 DNQ		
				Annual Max	22 DNQ		
				01/04/2022	ND	120	670
				01/25/2022	ND	330	740
n- Propylbenze ne	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<330		
				Annual Max	<330		
				01/25/2022	ND	280	620
				Annual Mean	<280		
n- Propylbenze ne wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<280		
				Annual Max	<280		
				01/04/2022	ND	29	160
				01/25/2022	ND	76	170
n- Propylbenze ne wet weight	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<76		
				Annual Max	<76		
				01/04/2022	ND	25	140
				01/25/2022	ND	77	170
n- Propylbenze ne wet weight	EPA 8260B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<77		
				Annual Max	<77		

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o-Xylene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<77					
				01/04/2022	ND	130	1000			
				01/25/2022	ND	100	380			
				Annual Mean	<130					
				Annual Max	<130					
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	88	320				
			Annual Mean	<88						
			Annual Max	<88						
			o-Xylene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	30	240
							01/25/2022	ND	24	86
Annual Mean	<30									
Annual Max	<30									
EPA 8260B	µg/kg	Plant 2 Dewatering Cake					01/04/2022	ND	26	210
			01/25/2022	ND	24	87				
			Annual Mean	<26						
			Annual Max	<26						
			sec- Butylbenzen e	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	130 DNQ	110	1700
01/25/2022	ND	110					740			
Annual Mean	120 DNQ									
Annual Max	130 DNQ									
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake					01/25/2022	ND	95	620
			Annual Mean	<95						
			Annual Max	<95						
			sec- Butylbenzen e wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	30 DNQ	26	410
							01/25/2022	ND	26	170
Annual Mean	28 DNQ									
Annual Max	30 DNQ									
EPA 8260B	µg/kg	Plant 2 Dewatering Cake					01/04/2022	26 DNQ	22	350
			01/25/2022	ND	26	170				
			Annual Mean	26 DNQ						
			Annual Max	26 DNQ						
			Styrene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	110	670
01/25/2022	ND	410					920			
Annual Mean	<410									
Annual Max	<410									
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake					01/25/2022	ND	340	770
			Annual Mean	<340						
			Annual Max	<340						
			Styrene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	25	160
							01/25/2022	ND	93	210
Annual Mean	<93									
Annual Max	<93									
EPA 8260B	µg/kg	Plant 2 Dewatering Cake					01/04/2022	ND	21	140
			01/25/2022	ND	94	210				
			Annual Mean	<94						
			Annual Max	<94						
			tert- Butylbenzen e	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	150 DNQ	110	1700
01/25/2022	ND	83					740			
Annual Mean	120 DNQ									
Annual Max	150 DNQ									
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake					01/25/2022	ND	70	620
			Annual Mean	<70						
			Annual Max	<70						
			tert- Butylbenzen e wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	36 DNQ	25	410
							01/25/2022	ND	19	170
Annual Mean	28 DNQ									
Annual Max	36 DNQ									
EPA 8260B	µg/kg	Plant 2 Dewatering Cake					01/04/2022	ND	21	350
			01/25/2022	ND	19	170				
			Annual Mean	<21						
			Annual Max	<21						
			Tetrachloroet	EPA 8260B	µg/kg dry	Plant 1	01/04/2022	ND	80	670

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hene			Dewatering Cake	01/25/2022	ND	83	740	
				Annual Mean	<83			
				Annual Max	<83			
EPA 8260B	µg/kg dry	Plant 2	Dewatering Cake	01/25/2022	ND	70	620	
				Annual Mean	<70			
				Annual Max	<70			
Tetrachloroethene wet weight	EPA 8260B	µg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	19	160
					01/25/2022	ND	19	170
					Annual Mean	<19		
	EPA 8260B	µg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	17	140
					01/25/2022	ND	19	170
					Annual Mean	<19		
Toluene	EPA 8260B	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	220	670
					01/25/2022	ND	120	740
					Annual Mean	<220		
	EPA 8260B	µg/kg dry	Plant 2	Dewatering Cake	01/25/2022	ND	99	620
					Annual Mean	<99		
					Annual Max	<99		
Toluene wet weight	EPA 8260B	µg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	53	160
					01/25/2022	ND	27	170
					Annual Mean	<53		
	EPA 8260B	µg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	45	140
					01/25/2022	ND	27	170
					Annual Mean	<45		
trans-1,2-Dichloroethene	EPA 8260B	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	150	670
					01/25/2022	ND	140	380
					Annual Mean	<150		
	EPA 8260B	µg/kg dry	Plant 2	Dewatering Cake	01/25/2022	ND	110	320
					Annual Mean	<110		
					Annual Max	<110		
trans-1,2-Dichloroethene wet weight	EPA 8260B	µg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	35	160
					01/25/2022	ND	31	86
					Annual Mean	<35		
	EPA 8260B	µg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	30	140
					01/25/2022	ND	31	87
					Annual Mean	<31		
trans-1,3-Dichloropropene	EPA 8260B	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	67	670
					01/25/2022	ND	520	1200
					Annual Mean	<520		
	EPA 8260B	µg/kg dry	Plant 2	Dewatering Cake	01/25/2022	ND	480	1000
					Annual Mean	<480		
					Annual Max	<480		
trans-1,3-Dichloropropene wet weight	EPA 8260B	µg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	16	160
					01/25/2022	ND	120	280
					Annual Mean	<120		
	EPA 8260B	µg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	13	140
					01/25/2022	ND	130	280
					Annual Mean	<130		
Trichloroethene	EPA 8260B	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	88	670
					01/25/2022	ND	70	740
					Annual Mean	<88		

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	EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max 01/25/2022	<88 ND	59	620
				Annual Mean	<59		
				Annual Max	<59		
Trichloroethene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	21	160
				01/25/2022	ND	16	170
				Annual Mean	<21		
				Annual Max	<21		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	18	140	
			01/25/2022	ND	16	170	
			Annual Mean	<18			
			Annual Max	<18			
Trichlorofluoromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	190	1700
				01/25/2022	ND	150	1500
				Annual Mean	<190		
				Annual Max	<190		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	130	1300	
			Annual Mean	<130			
			Annual Max	<130			
Trichlorofluoromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	45	410
				01/25/2022	ND	34	340
				Annual Mean	<45		
				Annual Max	<45		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	39	350	
			01/25/2022	ND	35	350	
			Annual Mean	<39			
			Annual Max	<39			
Vinyl chloride	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	140	340
				01/25/2022	ND	83	1500
				Annual Mean	<140		
				Annual Max	<140		
EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	01/25/2022	ND	70	1300	
			Annual Mean	<70			
			Annual Max	<70			
Vinyl chloride wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	34	81
				01/25/2022	ND	19	340
				Annual Mean	<34		
				Annual Max	<34		
EPA 8260B	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	29	70	
			01/25/2022	ND	19	350	
			Annual Mean	<29			
			Annual Max	<29			
Semi-Volatile Organic Compounds	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
	Annual Max	<13000					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<11000		
Annual Max				<11000			
1,2,4-Trichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3100	9800
				07/12/2022	ND	3100	9900
				09/13/2022	ND	1500	4900
				Annual Mean	<3100		
	Annual Max	<3100					
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3000	9500
				07/12/2022	ND	3100	10000
				09/13/2022	ND	1400	4300
Annual Mean				<3100			
Annual Max	<3100						
1,2-	EPA 8270C	µg/kg dry	Plant 1	01/04/2022	ND	13000	84000

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Dichlorobenzene			Dewatering Cake	07/12/2022	ND	12000	82000
				09/13/2022	ND	6400	42000
				Annual Mean	<13000		
				Annual Max	<13000		
EPA 8270C	µg/kg dry		Plant 2 Dewatering Cake	07/12/2022	ND	11000	70000
				09/13/2022	ND	4700	32000
				Annual Mean	<11000		
				Annual Max	<11000		
1,2-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3000	20000
				07/12/2022	ND	3000	20000
				09/13/2022	ND	1500	9800
				Annual Mean	<3000		
				Annual Max	<3000		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2900	19000
				07/12/2022	ND	3000	20000
				09/13/2022	ND	1300	8700
				Annual Mean	<3000		
				Annual Max	<3000		
1,3-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	24000	41000
				07/12/2022	ND	23000	41000
				09/13/2022	ND	12000	21000
				Annual Mean	<24000		
				Annual Max	<24000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	20000	35000
				09/13/2022	ND	9100	16000
				Annual Mean	<20000		
				Annual Max	<20000		
1,3-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	5600	9800
				07/12/2022	ND	5600	9900
				09/13/2022	ND	2800	4900
				Annual Mean	<5600		
				Annual Max	<5600		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	5400	9500
				07/12/2022	ND	5700	10000
				09/13/2022	ND	2500	4300
				Annual Mean	<5700		
				Annual Max	<5700		
1,4-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	23000	41000
				07/12/2022	ND	23000	41000
				09/13/2022	ND	11000	21000
				Annual Mean	<23000		
				Annual Max	<23000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	20000	35000
				09/13/2022	ND	8700	16000
				Annual Mean	<20000		
				Annual Max	<20000		
1,4-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	5500	9800
				07/12/2022	ND	5500	9900
				09/13/2022	ND	2700	4900
				Annual Mean	<5500		
				Annual Max	<5500		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	5300	9500
				07/12/2022	ND	5600	10000
				09/13/2022	ND	2400	4300
				Annual Mean	<5600		
				Annual Max	<5600		
2,4,5-Trichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6800	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2	07/12/2022	ND	11000	35000

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			Dewatering Cake	09/13/2022	ND	5100	16000
				Annual Mean	<11000		
				Annual Max	<11000		
2,4,5-Trichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3100	9800
				07/12/2022	ND	3200	9900
				09/13/2022	ND	1600	4900
				Annual Mean	<3200		
				Annual Max	<3200		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3000	9500
				07/12/2022	ND	3200	10000
				09/13/2022	ND	1400	4300
				Annual Mean	<3200		
				Annual Max	<3200		
2,4,6-Trichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	16000	41000
				07/12/2022	ND	16000	41000
				09/13/2022	ND	8100	21000
				Annual Mean	<16000		
				Annual Max	<16000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	14000	35000
				09/13/2022	ND	6200	16000
				Annual Mean	<14000		
				Annual Max	<14000		
				2,4,6-Trichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	3900	9900				
09/13/2022	ND	1900	4900				
Annual Mean	<3900						
Annual Max	<3900						
EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022		ND	3800	9500
			07/12/2022		ND	3900	10000
			09/13/2022		ND	1700	4300
			Annual Mean		<3900		
			Annual Max		<3900		
2,4-Dichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<11000		
				Annual Max	<11000		
				2,4-Dichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	3100	9900				
09/13/2022	ND	1500	4900				
Annual Mean	<3100						
Annual Max	<3100						
EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022		ND	3000	9500
			07/12/2022		ND	3100	10000
			09/13/2022		ND	1400	4300
			Annual Mean		<3100		
			Annual Max		<3100		
2,4-Dimethylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	12000	41000
				07/12/2022	ND	12000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<12000		
				Annual Max	<12000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	4700	16000
				Annual Mean	<11000		
				Annual Max	<11000		
				2,4-Dimethylphenol	EPA 8270C	µg/kg	Plant 1 Dewatering
07/12/2022	ND	3000	9900				

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nol wet weight	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	09/13/2022	ND	1500	4900
				Annual Mean	<3000		
				Annual Max	<3000		
				01/04/2022	ND	2900	9500
				07/12/2022	ND	3000	10000
2,4-Dinitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	09/13/2022	ND	1300	4300
				Annual Mean	<3000		
				Annual Max	<3000		
				01/04/2022	ND	110000	410000
				09/13/2022	ND	55000	210000
2,4-Dinitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<110000		
				Annual Max	<110000		
				09/13/2022	ND	44000	160000
				Annual Mean	<44000		
				Annual Max	<44000		
2,4-Dinitrotoluene	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/04/2022	ND	26000	95000
				09/13/2022	ND	12000	43000
				Annual Mean	<26000		
				Annual Max	<26000		
				01/04/2022	ND	15000	41000
2,4-Dinitrotoluene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	09/13/2022	ND	7600	21000
				Annual Mean	<15000		
				Annual Max	<15000		
				09/13/2022	ND	5800	16000
				Annual Mean	<5800		
2,6-Dinitrotoluene	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<5800		
				01/04/2022	ND	3600	9800
				09/13/2022	ND	1800	4900
				Annual Mean	<3600		
				Annual Max	<3600		
2,6-Dinitrotoluene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3400	9500
				09/13/2022	ND	1600	4300
				Annual Mean	<3400		
				Annual Max	<3400		
				01/04/2022	ND	15000	41000
2,6-Dinitrotoluene wet weight	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000
				Annual Mean	<15000		
				Annual Max	<15000		
				07/12/2022	ND	13000	35000
2,6-Dinitrotoluene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	09/13/2022	ND	5800	16000
				Annual Mean	<13000		
				Annual Max	<13000		
				01/04/2022	ND	3500	9800
				07/12/2022	ND	3500	9900
2-Chloronaphthalene	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	09/13/2022	ND	1700	4900
				Annual Mean	<3500		
				Annual Max	<3500		
				01/04/2022	ND	3400	9500
				07/12/2022	ND	3600	10000
2-Chloronaphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	09/13/2022	ND	1600	4300
				Annual Mean	<3600		
				Annual Max	<3600		
				01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000
2-Chloronaphthalene	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	09/13/2022	ND	7200	21000
				Annual Mean	<14000		
				Annual Max	<14000		
				01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000

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	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5500	16000
				Annual Mean	<12000		
				Annual Max	<12000		
2- Chloronaphth alene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3400	9800
				07/12/2022	ND	3400	9900
				09/13/2022	ND	1700	4900
				Annual Mean	<3400		
				Annual Max	<3400		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3300	9500
				07/12/2022	ND	3500	10000
				09/13/2022	ND	1500	4300
				Annual Mean	<3500		
				Annual Max	<3500		
2- Chlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	22000	41000
				07/12/2022	ND	22000	41000
				09/13/2022	ND	11000	21000
				Annual Mean	<22000		
				Annual Max	<22000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	19000	35000
				09/13/2022	ND	8700	16000
				Annual Mean	<19000		
				Annual Max	<19000		
2- Chlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	5300	9800
				07/12/2022	ND	5400	9900
				09/13/2022	ND	2700	4900
				Annual Mean	<5400		
				Annual Max	<5400		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	5200	9500
				07/12/2022	ND	5400	10000
				09/13/2022	ND	2400	4300
				Annual Mean	<5400		
				Annual Max	<5400		
2- Methylnaphth alene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	11000	84000
				07/12/2022	ND	11000	82000
				09/13/2022	ND	5900	42000
				Annual Mean	<11000		
				Annual Max	<11000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	9800	70000
				09/13/2022	ND	4400	32000
				Annual Mean	<9800		
				Annual Max	<9800		
2- Methylnaphth alene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	2700	20000
				07/12/2022	ND	2700	20000
				09/13/2022	ND	1400	9800
				Annual Mean	<2700		
				Annual Max	<2700		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2600	19000
				07/12/2022	ND	2800	20000
				09/13/2022	ND	1200	8700
				Annual Mean	<2800		
				Annual Max	<2800		
2- Methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	4700	16000
				Annual Mean	<11000		
				Annual Max	<11000		
2-	EPA 8270C	µg/kg	Plant 1	01/04/2022	ND	3000	9800

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Methylphenol wet weight			Dewatering Cake	07/12/2022	ND	3100	9900			
				09/13/2022	ND	1500	4900			
				Annual Mean	<3100					
				Annual Max	<3100					
				EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2900	9500
							07/12/2022	ND	3100	10000
		09/13/2022	ND	1300	4300					
		Annual Mean	<3100							
		Annual Max	<3100							
2-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	12000	41000			
				07/12/2022	ND	12000	41000			
				09/13/2022	ND	6400	21000			
			Annual Mean	<12000						
			Annual Max	<12000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000			
		09/13/2022		ND	4700	16000				
		Annual Mean		<11000						
		Annual Max		<11000						
2- Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	2900	9800			
				07/12/2022	ND	2900	9900			
				09/13/2022	ND	1500	4900			
			Annual Mean	<2900						
			Annual Max	<2900						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2800	9500			
		07/12/2022		ND	3000	10000				
		09/13/2022		ND	1300	4300				
		Annual Mean		<3000						
		Annual Max	<3000							
2-Nitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	31000	41000			
				07/12/2022	ND	30000	41000			
				09/13/2022	ND	15000	21000			
			Annual Mean	<31000						
			Annual Max	<31000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	26000	35000			
		09/13/2022		ND	12000	16000				
		Annual Mean		<26000						
		Annual Max		<26000						
2- Nitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	7300	9800			
				07/12/2022	ND	7300	9900			
				09/13/2022	ND	3600	4900			
			Annual Mean	<7300						
			Annual Max	<7300						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	7100	9500			
		07/12/2022		ND	7400	10000				
		09/13/2022		ND	3200	4300				
		Annual Mean		<7400						
		Annual Max	<7400							
3&4- Methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	12000	84000			
				07/12/2022	ND	12000	82000			
				09/13/2022	ND	5900	42000			
			Annual Mean	<12000						
			Annual Max	<12000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	70000			
		09/13/2022		ND	4700	32000				
		Annual Mean		<11000						
		Annual Max		<11000						
3&4- Methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	2900	20000			
				07/12/2022	ND	2900	20000			
				09/13/2022	ND	1400	9800			
			Annual Mean	<2900						
			Annual Max	<2900						
	EPA 8270C	µg/kg	Plant 2	01/04/2022	ND	2800	19000			

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			Dewatering Cake	07/12/2022	ND	3000	20000
				09/13/2022	ND	1300	8700
				Annual Mean	<3000		
				Annual Max	<3000		
3,3-Dichlorobenzidine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	11000	41000
				07/12/2022	ND	11000	41000
				09/13/2022	ND	5500	21000
				Annual Mean	<11000		
				Annual Max	<11000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	9500
09/13/2022	ND				4400	16000	
Annual Mean	<9500						
			Annual Max	<9500			
3,3-Dichlorobenzidine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	2700	9800
				07/12/2022	ND	2700	9900
				09/13/2022	ND	1300	4900
				Annual Mean	<2700		
				Annual Max	<2700		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2600
07/12/2022	ND				2700	10000	
09/13/2022	ND				1200	4300	
			Annual Mean	<2700			
			Annual Max	<2700			
3-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6800	21000
				Annual Mean	<13000		
				Annual Max	<13000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000
09/13/2022	ND				5100	16000	
Annual Mean	<11000						
			Annual Max	<11000			
3-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3200	9800
				07/12/2022	ND	3200	9900
				09/13/2022	ND	1600	4900
				Annual Mean	<3200		
				Annual Max	<3200		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3100
07/12/2022	ND				3200	10000	
09/13/2022	ND				1400	4300	
			Annual Mean	<3200			
			Annual Max	<3200			
4,6-Dinitro-2-methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	84000	410000
				07/12/2022	ND	82000	410000
				09/13/2022	ND	42000	210000
				Annual Mean	<84000		
				Annual Max	<84000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	74000
09/13/2022	ND				33000	160000	
Annual Mean	<74000						
			Annual Max	<74000			
4,6-Dinitro-2-methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	20000	98000
				07/12/2022	ND	20000	99000
				09/13/2022	ND	10000	49000
				Annual Mean	<20000		
				Annual Max	<20000		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	20000
07/12/2022	ND				21000	100000	
09/13/2022	ND				9000	43000	
			Annual Mean	<21000			
			Annual Max	<21000			
4-	EPA 8270C	µg/kg dry	Plant 1	01/04/2022	ND	15000	41000

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Bromophenyl phenyl ether			Dewatering Cake	07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000
				Annual Mean	<15000		
				Annual Max	<15000		
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022
			09/13/2022	ND	5500	16000	
			Annual Mean	<12000			
			Annual Max	<12000			
4- Bromophenyl phenyl ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3500	9800
				07/12/2022	ND	3500	9900
				09/13/2022	ND	1700	4900
				Annual Mean	<3500		
				Annual Max	<3500		
EPA 8270C	µg/kg	Plant 2 Dewatering Cake		01/04/2022	ND	3400	9500
				07/12/2022	ND	3500	10000
				09/13/2022	ND	1500	4300
				Annual Mean	<3500		
				Annual Max	<3500		
4-Chloro-3- methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	12000	41000
				07/12/2022	ND	12000	41000
				09/13/2022	ND	5900	21000
				Annual Mean	<12000		
				Annual Max	<12000		
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake		07/12/2022	ND	10000	35000
				09/13/2022	ND	4700	16000
				Annual Mean	<10000		
				Annual Max	<10000		
				4-Chloro-3- methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	2900	9900				
09/13/2022	ND	1400	4900				
Annual Mean	<2900						
Annual Max	<2900						
EPA 8270C	µg/kg	Plant 2 Dewatering Cake		01/04/2022	ND	2800	9500
				07/12/2022	ND	2900	10000
				09/13/2022	ND	1300	4300
				Annual Mean	<2900		
				Annual Max	<2900		
4- Chloroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	8400	84000
				07/12/2022	ND	8200	82000
				09/13/2022	ND	4200	42000
				Annual Mean	<8400		
				Annual Max	<8400		
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake		07/12/2022	ND	7000	70000
				09/13/2022	ND	3200	32000
				Annual Mean	<7000		
				Annual Max	<7000		
				4- Chloroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	2000	20000				
09/13/2022	ND	1000	9800				
Annual Mean	<2000						
Annual Max	<2000						
EPA 8270C	µg/kg	Plant 2 Dewatering Cake		01/04/2022	ND	1900	19000
				07/12/2022	ND	2000	20000
				09/13/2022	ND	890	8700
				Annual Mean	<2000		
				Annual Max	<2000		
4- Chlorophenyl phenyl ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
				Annual Max	<13000		
EPA 8270C	µg/kg dry	Plant 2	07/12/2022	ND	11000	35000	

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			Dewatering Cake	09/13/2022	ND	5100	16000
				Annual Mean	<11000		
				Annual Max	<11000		
4-Chlorophenyl phenyl ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3100	9800
				07/12/2022	ND	3100	9900
				09/13/2022	ND	1500	4900
				Annual Mean	<3100		
	Annual Max	<3100					
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3000	9500
				07/12/2022	ND	3200	10000
				09/13/2022	ND	1400	4300
Annual Mean				<3200			
Annual Max	<3200						
4-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6800	21000
				Annual Mean	<13000		
	Annual Max	<13000					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<12000		
Annual Max				<12000			
4-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3200	9800
				07/12/2022	ND	3200	9900
				09/13/2022	ND	1600	4900
				Annual Mean	<3200		
	Annual Max	<3200					
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3100	9500
				07/12/2022	ND	3300	10000
				09/13/2022	ND	1400	4300
Annual Mean				<3300			
Annual Max	<3300						
4-Nitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	59000	84000
				07/12/2022	ND	58000	82000
				09/13/2022	ND	30000	42000
				Annual Mean	<59000		
	Annual Max	<59000					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	53000	70000
				09/13/2022	ND	23000	32000
				Annual Mean	<53000		
Annual Max				<53000			
4-Nitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	14000	20000
				07/12/2022	ND	14000	20000
				09/13/2022	ND	7100	9800
				Annual Mean	<14000		
	Annual Max	<14000					
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	14000	19000
				07/12/2022	ND	15000	20000
				09/13/2022	ND	6400	8700
Annual Mean				<15000			
Annual Max	<15000						
Acenaphthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	12000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
	Annual Max	<13000					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	4700	16000
				Annual Mean	<11000		
Annual Max				<11000			
Acenaphthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering	01/04/2022	ND	3000	9800
				07/12/2022	ND	3000	9900

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			Cake	09/13/2022	ND	1500	4900
				Annual Mean	<3000		
				Annual Max	<3000		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2900	9500
				07/12/2022	ND	3000	10000
				09/13/2022	ND	1300	4300
				Annual Mean	<3000		
				Annual Max	<3000		
Acenaphthylene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6800	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<11000		
				Annual Max	<11000		
Acenaphthylene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3100	9800
				07/12/2022	ND	3100	9900
				09/13/2022	ND	1600	4900
				Annual Mean	<3100		
				Annual Max	<3100		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3000	9500
				07/12/2022	ND	3200	10000
				09/13/2022	ND	1400	4300
				Annual Mean	<3200		
				Annual Max	<3200		
Anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	6800	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<12000		
				Annual Max	<12000		
Anthracene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3200	9800
				07/12/2022	ND	3300	9900
				09/13/2022	ND	1600	4900
				Annual Mean	<3300		
				Annual Max	<3300		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3100	9500
				07/12/2022	ND	3300	10000
				09/13/2022	ND	1400	4300
				Annual Mean	<3300		
				Annual Max	<3300		
Azobenzene/1,2-Diphenylhydrazine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	24000	41000
				07/12/2022	ND	24000	41000
				09/13/2022	ND	12000	21000
				Annual Mean	<24000		
				Annual Max	<24000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	21000	35000
				09/13/2022	ND	9500	16000
				Annual Mean	<21000		
				Annual Max	<21000		
Azobenzene/1,2-Diphenylhydrazine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	5800	9800
				07/12/2022	ND	5800	9900
				09/13/2022	ND	2900	4900
				Annual Mean	<5800		
				Annual Max	<5800		
	EPA 8270C	µg/kg	Plant 2 Dewatering	01/04/2022	ND	5600	9500
				07/12/2022	ND	5900	10000

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			Cake	09/13/2022	ND	2600	4300
				Annual Mean	<5900		
				Annual Max	<5900		
Benz(a)anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
			09/13/2022	ND	5500	16000	
			Annual Mean	<12000			
			Annual Max	<12000			
Benz(a)anthracene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3300	9800
				07/12/2022	ND	3400	9900
				09/13/2022	ND	1700	4900
				Annual Mean	<3400		
				Annual Max	<3400		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3200	9500
			07/12/2022	ND	3400	10000	
			09/13/2022	ND	1500	4300	
			Annual Mean	<3400			
			Annual Max	<3400			
Benzidine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	39000	250000
				09/13/2022	ND	19000	120000
				Annual Mean	<39000		
				Annual Max	<39000		
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	09/13/2022
				Annual Mean	<15000		
			Annual Max	<15000			
Benzidine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	9300	59000
				09/13/2022	ND	4600	29000
				Annual Mean	<9300		
				Annual Max	<9300		
				EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022
				09/13/2022	ND	4100	26000
			Annual Mean	<9000			
			Annual Max	<9000			
Benzo(a)pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
			09/13/2022	ND	5500	16000	
			Annual Mean	<12000			
			Annual Max	<12000			
Benzo(a)pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3400	9800
				07/12/2022	ND	3400	9900
				09/13/2022	ND	1700	4900
				Annual Mean	<3400		
				Annual Max	<3400		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3300	9500
			07/12/2022	ND	3500	10000	
			09/13/2022	ND	1500	4300	
			Annual Mean	<3500			
			Annual Max	<3500			
Benzo(b)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2	07/12/2022	ND	11000	35000

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			Dewatering Cake	09/13/2022	ND	5100	16000
				Annual Mean	<11000		
				Annual Max	<11000		
Benzo(b)fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3100	9800
				07/12/2022	ND	3100	9900
				09/13/2022	ND	1500	4900
				Annual Mean	<3100		
				Annual Max	<3100		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3000	9500
			07/12/2022	ND	3100	10000	
			09/13/2022	ND	1400	4300	
			Annual Mean	<3100			
			Annual Max	<3100			
Benzo(g,h,i)perylene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
			09/13/2022	ND	5500	16000	
			Annual Mean	<12000			
			Annual Max	<12000			
Benzo(g,h,i)perylene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3400	9800
				07/12/2022	ND	3400	9900
				09/13/2022	ND	1700	4900
				Annual Mean	<3400		
				Annual Max	<3400		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3200	9500
			07/12/2022	ND	3400	10000	
			09/13/2022	ND	1500	4300	
			Annual Mean	<3400			
			Annual Max	<3400			
Benzo(k)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	15000	41000
				07/12/2022	ND	15000	41000
				09/13/2022	ND	7600	21000
				Annual Mean	<15000		
				Annual Max	<15000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	13000	35000
			09/13/2022	ND	5800	16000	
			Annual Mean	<13000			
			Annual Max	<13000			
Benzo(k)fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3500	9800
				07/12/2022	ND	3600	9900
				09/13/2022	ND	1800	4900
				Annual Mean	<3600		
				Annual Max	<3600		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3400	9500
			07/12/2022	ND	3600	10000	
			09/13/2022	ND	1600	4300	
			Annual Mean	<3600			
			Annual Max	<3600			
Benzoic acid	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	46000	160000
				09/13/2022	ND	23000	85000
				Annual Mean	<46000		
				Annual Max	<46000		
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	09/13/2022
				Annual Mean	<17000		
			Annual Max	<17000			
Benzoic acid wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	11000	39000
				09/13/2022	ND	5400	20000
				Annual Mean	<11000		
				Annual Max	<11000		

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	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	11000	38000
				09/13/2022	ND	4800	17000
				Annual Mean	<11000		
				Annual Max	<11000		
Benzyl alcohol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	12000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	4700	16000
				Annual Mean	<11000		
				Annual Max	<11000		
Benzyl alcohol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3000	9800
				07/12/2022	ND	3000	9900
				09/13/2022	ND	1500	4900
				Annual Mean	<3000		
				Annual Max	<3000		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2900	9500
				07/12/2022	ND	3100	10000
				09/13/2022	ND	1300	4300
				Annual Mean	<3100		
				Annual Max	<3100		
Bis(2- chloroethoxy) methane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	12000	41000
				07/12/2022	ND	12000	41000
				09/13/2022	ND	5900	21000
				Annual Mean	<12000		
				Annual Max	<12000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	10000	35000
				09/13/2022	ND	4700	16000
				Annual Mean	<10000		
				Annual Max	<10000		
Bis(2- chloroethoxy) methane wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	2800	9800
				07/12/2022	ND	2800	9900
				09/13/2022	ND	1400	4900
				Annual Mean	<2800		
				Annual Max	<2800		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2700	9500
				07/12/2022	ND	2900	10000
				09/13/2022	ND	1300	4300
				Annual Mean	<2900		
				Annual Max	<2900		
Bis(2- chloroethyl)et her	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5500	16000
				Annual Mean	<12000		
				Annual Max	<12000		
Bis(2- chloroethyl)et her wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3400	9800
				07/12/2022	ND	3400	9900
				09/13/2022	ND	1700	4900
				Annual Mean	<3400		
				Annual Max	<3400		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3200	9500
				07/12/2022	ND	3400	10000
				09/13/2022	ND	1500	4300
				Annual Mean	<3400		
				Annual Max	<3400		
Bis(2-	EPA 8270C	µg/kg dry	Plant 1	01/04/2022	ND	13000	41000

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chloroisopropyl)ether			Dewatering Cake	07/12/2022	ND	12000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
				Annual Max	<13000		
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022
		09/13/2022	ND	4700	16000		
		Annual Mean	<11000				
		Annual Max	<11000				
Bis(2-chloroisopropyl)ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3000	9800
				07/12/2022	ND	3000	9900
				09/13/2022	ND	1500	4900
				Annual Mean	<3000		
				Annual Max	<3000		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2900	9500
				07/12/2022	ND	3000	10000
				09/13/2022	ND	1300	4300
				Annual Mean	<3000		
				Annual Max	<3000		
Bis(2-ethylhexyl)phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	31000 DNQ	15000	41000
				07/12/2022	34000 DNQ	15000	41000
				09/13/2022	35000	7600	21000
				Annual Mean	33000 DNQ		
				Annual Max	35000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	25000 DNQ	13000	35000
				09/13/2022	31000	5800	16000
				Annual Mean	28000 DNQ		
				Annual Max	31000		
Bis(2-ethylhexyl)phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	7400 DNQ	3500	9800
				07/12/2022	8300 DNQ	3600	9900
				09/13/2022	8200	1800	4900
				Annual Mean	8000 DNQ		
				Annual Max	8200		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	9400 DNQ	3400	9500
				07/12/2022	7200 DNQ	3600	10000
				09/13/2022	8400	1600	4300
				Annual Mean	8300 DNQ		
				Annual Max	8400		
Butyl benzyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	6800	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<12000		
				Annual Max	<12000		
Butyl benzyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3300	9800
				07/12/2022	ND	3300	9900
				09/13/2022	ND	1600	4900
				Annual Mean	<3300		
				Annual Max	<3300		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3100	9500
				07/12/2022	ND	3300	10000
				09/13/2022	ND	1400	4300
				Annual Mean	<3300		
				Annual Max	<3300		
Chrysene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	15000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000

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				Annual Mean	<15000		
				Annual Max	<15000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5500	16000
				Annual Mean	<12000		
				Annual Max	<12000		
Chrysene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3500	9800
				07/12/2022	ND	3500	9900
				09/13/2022	ND	1700	4900
				Annual Mean	<3500		
				Annual Max	<3500		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3300	9500
				07/12/2022	ND	3500	10000
				09/13/2022	ND	1500	4300
Annual Mean				<3500			
			Annual Max	<3500			
Dibenz(a,h)a nthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	39000	41000
				07/12/2022	ND	38000	41000
				09/13/2022	ND	19000	21000
				Annual Mean	<39000		
				Annual Max	<39000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	33000	35000
				09/13/2022	ND	15000	16000
				Annual Mean	<33000		
Annual Max				<33000			
Dibenz(a,h)a nthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	9300	9800
				07/12/2022	ND	9300	9900
				09/13/2022	ND	4600	4900
				Annual Mean	<9300		
				Annual Max	<9300		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	9000	9500
				07/12/2022	ND	9400	10000
				09/13/2022	ND	4100	4300
Annual Mean				<9400			
			Annual Max	<9400			
Dibenzofuran	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6800	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<11000		
Annual Max				<11000			
Dibenzofuran wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3200	9800
				07/12/2022	ND	3200	9900
				09/13/2022	ND	1600	4900
				Annual Mean	<3200		
				Annual Max	<3200		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3100	9500
				07/12/2022	ND	3200	10000
				09/13/2022	ND	1400	4300
Annual Mean				<3200			
			Annual Max	<3200			
Diethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
09/13/2022				ND	5100	16000	
			Annual Mean	<11000			

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Diethyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	Annual Max	<11000		
				01/04/2022	ND	3100	9800
				07/12/2022	ND	3100	9900
				09/13/2022	ND	1500	4900
				Annual Mean	<3100		
	Annual Max	<3100					
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3000	9500
				07/12/2022	ND	3100	10000
				09/13/2022	ND	1400	4300
				Annual Mean	<3100		
Annual Max				<3100			
Dimethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	12000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	4700	16000
				Annual Mean	<11000		
				Annual Max	<11000		
				Dimethyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	3000	9900				
09/13/2022	ND	1500	4900				
Annual Mean	<3000						
Annual Max	<3000						
EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022		ND	2900	9500
			07/12/2022		ND	3100	10000
			09/13/2022		ND	1300	4300
			Annual Mean		<3100		
			Annual Max		<3100		
Di-n-butyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5500	16000
				Annual Mean	<12000		
				Annual Max	<12000		
				Di-n-butyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	3300	9900				
09/13/2022	ND	1700	4900				
Annual Mean	<3300						
Annual Max	<3300						
EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022		ND	3200	9500
			07/12/2022		ND	3400	10000
			09/13/2022		ND	1500	4300
			Annual Mean		<3400		
			Annual Max		<3400		
Di-n-octyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6400	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<11000		
				Annual Max	<11000		
				Di-n-octyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	3100	9900				
09/13/2022	ND	1500	4900				
Annual Mean	<3100						
Annual Max	<3100						

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				Annual Max	<3100		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3000	9500
				07/12/2022	ND	3100	10000
				09/13/2022	ND	1400	4300
				Annual Mean	<3100		
				Annual Max	<3100		
Fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	13000	41000
				09/13/2022	ND	6800	21000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<11000		
				Annual Max	<11000		
Fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3200	9800
				07/12/2022	ND	3200	9900
				09/13/2022	ND	1600	4900
				Annual Mean	<3200		
				Annual Max	<3200		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3100	9500
				07/12/2022	ND	3200	10000
				09/13/2022	ND	1400	4300
				Annual Mean	<3200		
				Annual Max	<3200		
Fluorene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	6800	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5100	16000
				Annual Mean	<12000		
				Annual Max	<12000		
Fluorene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3200	9800
				07/12/2022	ND	3300	9900
				09/13/2022	ND	1600	4900
				Annual Mean	<3300		
				Annual Max	<3300		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3100	9500
				07/12/2022	ND	3300	10000
				09/13/2022	ND	1400	4300
				Annual Mean	<3300		
				Annual Max	<3300		
Hexachlorob enzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	12000	41000
				09/13/2022	ND	5900	21000
				Annual Mean	<12000		
				Annual Max	<12000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	09/13/2022	ND	4700	16000
				Annual Mean	<4700		
				Annual Max	<4700		
Hexachlorob enzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	2800	9800
				09/13/2022	ND	1400	4900
				Annual Mean	<2800		
				Annual Max	<2800		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2800	9500
				09/13/2022	ND	1300	4300
				Annual Mean	<2800		
				Annual Max	<2800		
Hexachlorob utadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	17000	41000
				07/12/2022	ND	16000	41000
				09/13/2022	ND	8500	21000

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				Annual Mean	<17000		
				Annual Max	<17000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	14000	35000
				09/13/2022	ND	6500	16000
				Annual Mean	<14000		
				Annual Max	<14000		
Hexachlorobutadiene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	4000	9800
				07/12/2022	ND	4000	9900
				09/13/2022	ND	2000	4900
				Annual Mean	<4000		
				Annual Max	<4000		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3900	9500
				07/12/2022	ND	4100	10000
				09/13/2022	ND	1800	4300
Annual Mean				<4100			
			Annual Max	<4100			
Hexachlorocyclopentadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	23000	84000
				07/12/2022	ND	23000	82000
				09/13/2022	ND	11000	42000
				Annual Mean	<23000		
				Annual Max	<23000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	20000	70000
				09/13/2022	ND	9100	32000
				Annual Mean	<20000		
Annual Max				<20000			
Hexachlorocyclopentadiene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	5500	20000
				07/12/2022	ND	5600	20000
				09/13/2022	ND	2700	9800
				Annual Mean	<5600		
				Annual Max	<5600		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	5300	19000
				07/12/2022	ND	5600	20000
				09/13/2022	ND	2500	8700
Annual Mean				<5600			
			Annual Max	<5600			
Hexachloroethane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	22000	84000
				07/12/2022	ND	22000	82000
				09/13/2022	ND	11000	42000
				Annual Mean	<22000		
				Annual Max	<22000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	19000	70000
				09/13/2022	ND	8400	32000
				Annual Mean	<19000		
Annual Max				<19000			
Hexachloroethane wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	5300	20000
				07/12/2022	ND	5300	20000
				09/13/2022	ND	2600	9800
				Annual Mean	<5300		
				Annual Max	<5300		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	5100	19000
				07/12/2022	ND	5400	20000
				09/13/2022	ND	2300	8700
Annual Mean				<5400			
			Annual Max	<5400			
Indeno(1,2,3-cd)pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	17000	41000
				07/12/2022	ND	17000	41000
				09/13/2022	ND	8500	21000
				Annual Mean	<17000		
				Annual Max	<17000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	14000	35000
09/13/2022				ND	6500	16000	
			Annual Mean	<14000			

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Indeno(1,2,3-cd)pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	Annual Max	<14000		
				01/04/2022	ND	4000	9800
				07/12/2022	ND	4100	9900
				09/13/2022	ND	2000	4900
				Annual Mean	<4100		
	Annual Max	<4100					
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3900	9500
				07/12/2022	ND	4100	10000
				09/13/2022	ND	1800	4300
				Annual Mean	<4100		
Annual Max				<4100			
Isophorone	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5500	16000
				Annual Mean	<12000		
				Annual Max	<12000		
				Isophorone wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	3400	9900				
09/13/2022	ND	1700	4900				
Annual Mean	<3400						
Annual Max	<3400						
EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022		ND	3300	9500
			07/12/2022		ND	3500	10000
			09/13/2022		ND	1500	4300
			Annual Mean		<3500		
			Annual Max		<3500		
Naphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	84000
				07/12/2022	ND	13000	82000
				09/13/2022	ND	6800	42000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	70000
				09/13/2022	ND	5100	32000
				Annual Mean	<11000		
				Annual Max	<11000		
				Naphthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	3200	20000				
09/13/2022	ND	1600	9800				
Annual Mean	<3200						
Annual Max	<3200						
EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022		ND	3100	19000
			07/12/2022		ND	3200	20000
			09/13/2022		ND	1400	8700
			Annual Mean		<3200		
			Annual Max		<3200		
Nitrobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14000	41000
				07/12/2022	ND	14000	41000
				09/13/2022	ND	7200	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5500	16000
				Annual Mean	<12000		
				Annual Max	<12000		
				Nitrobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake
07/12/2022	ND	3400	9900				
09/13/2022	ND	1700	4900				
Annual Mean	<3400						

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	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	Annual Max	<3400					
				01/04/2022	ND	3200	9500			
				07/12/2022	ND	3400	10000			
				09/13/2022	ND	1500	4300			
				Annual Mean	<3400					
				Annual Max	<3400					
N-Nitrosodimet hylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	50000	160000			
				09/13/2022	ND	25000	85000			
				Annual Mean	<50000					
				Annual Max	<50000					
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	09/13/2022	ND	19000	62000				
			Annual Mean	<19000						
			Annual Max	<19000						
N-Nitroso-dim ethylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	09/13/2022	ND	5800	20000			
				Annual Mean	<5800					
				Annual Max	<5800					
	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND		12000	39000		
				Annual Mean	<12000					
				Annual Max	<12000					
				EPA 8270C	µg/kg	Plant 2 Dewatering Cake	09/13/2022	ND	5100	17000
							Annual Mean	<5100		
Annual Max	<5100									
EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND		11000	38000			
			Annual Mean	<11000						
			Annual Max	<11000						
			EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	12000	84000	
						07/12/2022	ND	12000	82000	
09/13/2022	ND	5900				42000				
Annual Mean	<12000									
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	10000	70000				
			09/13/2022	ND	4700	32000				
			Annual Mean	<10000						
			Annual Max	<10000						
N-Nitroso-di- n-propylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	2800	20000			
				07/12/2022	ND	2800	20000			
				09/13/2022	ND	1400	9800			
				Annual Mean	<2800					
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2700	19000			
				07/12/2022	ND	2900	20000			
				09/13/2022	ND	1300	8700			
				Annual Mean	<2900					
				Annual Max	<2900					
N-Nitrosodiphe nylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000			
				07/12/2022	ND	13000	41000			
				09/13/2022	ND	6800	21000			
				Annual Mean	<13000					
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	35000			
				09/13/2022	ND	5100	16000			
				Annual Mean	<11000					
				Annual Max	<11000					
N-Nitrosodiphe nylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3100	9800			
				07/12/2022	ND	3200	9900			
				09/13/2022	ND	1600	4900			
				Annual Mean	<3200					
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3000	9500			
				07/12/2022	ND	3200	10000			
				09/13/2022	ND	1400	4300			
				Annual Mean	<3200					

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Pentachlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<3200					
				01/04/2022	ND	80000	160000			
				07/12/2022	ND	78000	160000			
				09/13/2022	ND	41000	85000			
				Annual Mean	<80000					
				Annual Max	<80000					
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	70000	140000				
			09/13/2022	ND	31000	62000				
			Annual Mean	<70000						
			Annual Max	<70000						
			Pentachlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	19000	39000
							07/12/2022	ND	19000	39000
09/13/2022	ND	9600					20000			
Annual Mean	<19000									
Annual Max	<19000									
EPA 8270C	µg/kg	Plant 2 Dewatering Cake					01/04/2022	ND	19000	38000
			07/12/2022	ND	20000	40000				
			09/13/2022	ND	8600	17000				
			Annual Mean	<20000						
			Annual Max	<20000						
			Phenanthrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	41000
07/12/2022	ND	13000					41000			
09/13/2022	ND	6400					21000			
Annual Mean	<13000									
Annual Max	<13000									
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake					07/12/2022	ND	11000	35000
			09/13/2022	ND	5100	16000				
			Annual Mean	<11000						
			Annual Max	<11000						
			Phenanthrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3100	9800
							07/12/2022	ND	3100	9900
09/13/2022	ND	1500					4900			
Annual Mean	<3100									
Annual Max	<3100									
EPA 8270C	µg/kg	Plant 2 Dewatering Cake					01/04/2022	ND	3000	9500
			07/12/2022	ND	3100	10000				
			09/13/2022	ND	1400	4300				
			Annual Mean	<3100						
			Annual Max	<3100						
			Phenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	26000	84000
07/12/2022	ND	26000					82000			
09/13/2022	85000	13000					42000			
Annual Mean	46000 DNQ									
Annual Max	85000									
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake					07/12/2022	ND	22000	70000
			09/13/2022	ND	9800	32000				
			Annual Mean	<22000						
			Annual Max	<22000						
			Phenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	6200	20000
							07/12/2022	ND	6200	20000
09/13/2022	20000	3100					9800			
Annual Mean	11000 DNQ									
Annual Max	20000									
EPA 8270C	µg/kg	Plant 2 Dewatering Cake					01/04/2022	ND	6000	19000
			07/12/2022	ND	6300	20000				
			09/13/2022	ND	2700	8700				
			Annual Mean	<6300						
			Annual Max	<6300						
			Pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering	01/04/2022	ND	14000	41000
07/12/2022	ND	14000					41000			

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			Cake	09/13/2022	ND	7200	21000
				Annual Mean	<14000		
				Annual Max	<14000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	12000	35000
				09/13/2022	ND	5500	16000
				Annual Mean	<12000		
				Annual Max	<12000		
Pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3400	9800
				07/12/2022	ND	3500	9900
				09/13/2022	ND	1700	4900
				Annual Mean	<3500		
				Annual Max	<3500		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3300	9500
				07/12/2022	ND	3500	10000
				09/13/2022	ND	1500	4300
				Annual Mean	<3500		
				Annual Max	<3500		
Pyridine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	40000	84000
				07/12/2022	ND	40000	82000
				09/13/2022	ND	20000	42000
				Annual Mean	<40000		
				Annual Max	<40000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	34000	70000
				09/13/2022	ND	15000	32000
				Annual Mean	<34000		
				Annual Max	<34000		
Pyridine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	9500	20000
				07/12/2022	ND	9600	20000
				09/13/2022	ND	4700	9800
				Annual Mean	<9600		
				Annual Max	<9600		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	9200	19000
				07/12/2022	ND	9700	20000
				09/13/2022	ND	4200	8700
				Annual Mean	<9700		
				Annual Max	<9700		
Total Cresols	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	13000	84000
				07/12/2022	ND	13000	82000
				09/13/2022	ND	6400	42000
				Annual Mean	<13000		
				Annual Max	<13000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	07/12/2022	ND	11000	70000
				09/13/2022	ND	4700	32000
				Annual Mean	<11000		
				Annual Max	<11000		
Total Cresols wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3000	20000
				07/12/2022	ND	3100	20000
				09/13/2022	ND	1500	9800
				Annual Mean	<3100		
				Annual Max	<3100		
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	2900	19000
				07/12/2022	ND	3100	20000
				09/13/2022	ND	1300	8700
				Annual Mean	<3100		
				Annual Max	<3100		
Organochlorine Pesticides	Aldrin	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	15	42
				Annual Mean	<15		
				Annual Max	<15		
Aldrin wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3.6	10
				Annual Mean	<3.6		
				Annual Max	<3.6		
	EPA 8081A	µg/kg	Plant 2	01/04/2022	ND	3.6	9.9

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			Dewatering Cake	Annual Mean	<3.6		
				Annual Max	<3.6		
alpha-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	5.0	42
				Annual Mean	<5.0		
				Annual Max	<5.0		
alpha-BHC wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	1.2	10
				Annual Mean	<1.2		
				Annual Max	<1.2		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	1.2	9.9
				Annual Mean	<1.2		
				Annual Max	<1.2		
alpha-Chlordane wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	130	670
				Annual Mean	<130		
				Annual Max	<130		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	130	660
				Annual Mean	<130		
				Annual Max	<130		
beta-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	22	42
				Annual Mean	<22		
				Annual Max	<22		
beta-BHC wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	5.2	10
				Annual Mean	<5.2		
				Annual Max	<5.2		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	5.2	9.9
				Annual Mean	<5.2		
				Annual Max	<5.2		
Chlordane	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	160	420
				Annual Mean	<160		
				Annual Max	<160		
Chlordane wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	38	100
				Annual Mean	<38		
				Annual Max	<38		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	38	99
				Annual Mean	<38		
				Annual Max	<38		
delta-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	6.7	42
				Annual Mean	<6.7		
				Annual Max	<6.7		
delta-BHC wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	1.6	10
				Annual Mean	<1.6		
				Annual Max	<1.6		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	1.6	9.9
				Annual Mean	<1.6		
				Annual Max	<1.6		
Dieldrin	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	16	42
				Annual Mean	<16		
				Annual Max	<16		
Dieldrin wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3.8	10
				Annual Mean	<3.8		
				Annual Max	<3.8		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3.8	9.9
				Annual Mean	<3.8		
				Annual Max	<3.8		
Endosulfan 1	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14	42
				Annual Mean	<14		
				Annual Max	<14		
Endosulfan 1 wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3.4	10
				Annual Mean	<3.4		
				Annual Max	<3.4		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3.4	9.9
				Annual Mean	<3.4		
				Annual Max	<3.4		

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Endosulfan 2	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	16	42
				Annual Mean	<16		
				Annual Max	<16		
Endosulfan 2 wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3.8	10
				Annual Mean	<3.8		
				Annual Max	<3.8		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3.8	9.9
				Annual Mean	<3.8		
				Annual Max	<3.8		
Endosulfan Sulfate	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	18	42
				Annual Mean	<18		
				Annual Max	<18		
Endosulfan Sulfate wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	4.2	10
				Annual Mean	<4.2		
				Annual Max	<4.2		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	4.2	9.9
				Annual Mean	<4.2		
				Annual Max	<4.2		
Endrin	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	15	42
				Annual Mean	<15		
				Annual Max	<15		
Endrin Aldehyde	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	16	42
				Annual Mean	<16		
				Annual Max	<16		
Endrin Aldehyde wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3.8	10
				Annual Mean	<3.8		
				Annual Max	<3.8		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3.8	9.9
				Annual Mean	<3.8		
				Annual Max	<3.8		
Endrin Ketone	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	330	2800
				Annual Mean	<330		
				Annual Max	<330		
Endrin Ketone wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	79	670
				Annual Mean	<79		
				Annual Max	<79		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	78	660
				Annual Mean	<78		
				Annual Max	<78		
Endrin wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	3.6	10
				Annual Mean	<3.6		
				Annual Max	<3.6		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	3.6	9.9
				Annual Mean	<3.6		
				Annual Max	<3.6		
gamma-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	5.9	42
				Annual Mean	<5.9		
				Annual Max	<5.9		
gamma- BHC wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	1.4	10
				Annual Mean	<1.4		
				Annual Max	<1.4		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	1.4	9.9
				Annual Mean	<1.4		
				Annual Max	<1.4		
Heptachlor	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	20	42
				Annual Mean	<20		
				Annual Max	<20		
Heptachlor Epoxide	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	14	42
				Annual Mean	<14		
				Annual Max	<14		
Heptachlor Epoxide wet	EPA 8081A	µg/kg	Plant 1 Dewatering	01/04/2022	ND	3.4	10
				Annual Mean	<3.4		

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weight	EPA 8081A	µg/kg	Cake Plant 2 Dewatering Cake	Annual Max	<3.4		
				01/04/2022	ND	3.4	9.9
				Annual Mean	<3.4		
Heptachlor wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	Annual Max	<3.4		
				01/04/2022	ND	4.8	10
				Annual Mean	<4.8		
EPA 8081A	µg/kg	Plant 2 Dewatering Cake	Annual Max	<4.8			
			01/04/2022	ND	4.8	9.9	
			Annual Mean	<4.8			
Kepone	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<4.8		
				01/04/2022	ND	88000	250000
				Annual Mean	<88000		
Kepone wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	Annual Max	<88000		
				01/04/2022	ND	21000	59000
				Annual Mean	<21000		
EPA 8081A	µg/kg	Plant 2 Dewatering Cake	Annual Max	<21000			
			01/04/2022	ND	21000	58000	
			Annual Mean	<21000			
Methoxychlor	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<21000		
				01/04/2022	ND	13	84
				Annual Mean	<13		
Methoxychlor wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	Annual Max	<13		
				01/04/2022	ND	3.0	20
				Annual Mean	<3.0		
EPA 8081A	µg/kg	Plant 2 Dewatering Cake	Annual Max	<3.0			
			01/04/2022	ND	3.0	20	
			Annual Mean	<3.0			
Mirex	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<3.0		
				01/04/2022	ND	1100	2800
				Annual Mean	<1100		
Mirex wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	Annual Max	<1100		
				01/04/2022	ND	260	670
				Annual Mean	<260		
EPA 8081A	µg/kg	Plant 2 Dewatering Cake	Annual Max	<260			
			01/04/2022	ND	260	660	
			Annual Mean	<260			
o,p'-DDD	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<260		
				01/04/2022	ND	590	2800
				Annual Mean	<590		
o,p'-DDD wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	Annual Max	<590		
				01/04/2022	ND	140	670
				Annual Mean	<140		
EPA 8081A	µg/kg	Plant 2 Dewatering Cake	Annual Max	<140			
			01/04/2022	ND	140	660	
			Annual Mean	<140			
o,p'-DDE	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<140		
				01/04/2022	ND	1100	2800
				Annual Mean	<1100		
o,p'-DDE wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	Annual Max	<1100		
				01/04/2022	ND	250	670
				Annual Mean	<250		
EPA 8081A	µg/kg	Plant 2 Dewatering Cake	Annual Max	<250			
			01/04/2022	ND	250	660	
			Annual Mean	<250			
o,p'-DDT	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<250		
				01/04/2022	ND	880	2800
				Annual Mean	<880		
o,p'-DDT wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	Annual Max	<880		
				01/04/2022	ND	210	670
				Annual Mean	<210		
EPA 8081A	µg/kg	Plant 2	Annual Max	<210			
			01/04/2022	ND	210	660	
			Annual Mean	<210			

Appendix C: Summary of Biosolids Monitoring Results

			Dewatering Cake	Annual Mean	<210		
				Annual Max	<210		
p,p'-DDD	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	20	42
				Annual Mean	<20		
				Annual Max	<20		
p,p'-DDD wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	4.8	10
				Annual Mean	<4.8		
				Annual Max	<4.8		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	4.8	9.9
				Annual Mean	<4.8		
				Annual Max	<4.8		
p,p'-DDE	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	18	42
				Annual Mean	<18		
				Annual Max	<18		
p,p'-DDE wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	4.4	10
				Annual Mean	<4.4		
				Annual Max	<4.4		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	4.4	9.9
				Annual Mean	<4.4		
				Annual Max	<4.4		
p,p'-DDT	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	29	42
				Annual Mean	<29		
				Annual Max	<29		
p,p'-DDT wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	7.0	10
				Annual Mean	<7.0		
				Annual Max	<7.0		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	6.9	9.9
				Annual Mean	<6.9		
				Annual Max	<6.9		
Total DDTs	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	1100	2800
				Annual Mean	<1100		
				Annual Max	<1100		
Total DDTs wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	250	670
				Annual Mean	<250		
				Annual Max	<250		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	250	660
				Annual Mean	<250		
				Annual Max	<250		
Total Heptachlors	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	20	42
				Annual Mean	<20		
				Annual Max	<20		
Total Heptachlors wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	4.8	10
				Annual Mean	<4.8		
				Annual Max	<4.8		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	4.8	9.9
				Annual Mean	<4.8		
				Annual Max	<4.8		
Toxaphene	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/04/2022	ND	160	840
				Annual Mean	<160		
				Annual Max	<160		
Toxaphene wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	37	200
				Annual Mean	<37		
				Annual Max	<37		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	37	200
				Annual Mean	<37		
				Annual Max	<37		
trans-Chlordane wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/04/2022	ND	100	670
				Annual Mean	<100		
				Annual Max	<100		
	EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/04/2022	ND	100	660
				Annual Mean	<100		
				Annual Max	<100		

Appendix C: Summary of Biosolids Monitoring Results

PCBs	PCB ID	EPA Method	Unit	Plant	Process	01/04/2022			
						ND	Value	Limit	
PCBs	PCB 1016	EPA 8082	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	200	420
						Annual Mean	<200		
						Annual Max	<200		
	PCB 1016 wet weight	EPA 8082	mg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	0.047	0.099
						Annual Mean	<0.047		
						Annual Max	<0.047		
		EPA 8082	mg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	0.047	0.10
						Annual Mean	<0.047		
						Annual Max	<0.047		
	PCB 1221	EPA 8082	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	240	420
						Annual Mean	<240		
						Annual Max	<240		
	PCB 1221 wet weight	EPA 8082	mg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	0.057	0.099
						Annual Mean	<0.057		
						Annual Max	<0.057		
		EPA 8082	mg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	0.057	0.10
						Annual Mean	<0.057		
						Annual Max	<0.057		
	PCB 1232	EPA 8082	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	260	420
						Annual Mean	<260		
						Annual Max	<260		
	PCB 1232 wet weight	EPA 8082	mg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	0.062	0.099
						Annual Mean	<0.062		
						Annual Max	<0.062		
EPA 8082		mg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	0.063	0.10	
					Annual Mean	<0.063			
					Annual Max	<0.063			
PCB 1242	EPA 8082	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	130	420	
					Annual Mean	<130			
					Annual Max	<130			
PCB 1242 wet weight	EPA 8082	mg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	0.030	0.099	
					Annual Mean	<0.030			
					Annual Max	<0.030			
	EPA 8082	mg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	0.030	0.10	
					Annual Mean	<0.030			
					Annual Max	<0.030			
PCB 1248	EPA 8082	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	130	420	
					Annual Mean	<130			
					Annual Max	<130			
PCB 1248 wet weight	EPA 8082	mg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	0.031	0.099	
					Annual Mean	<0.031			
					Annual Max	<0.031			
	EPA 8082	mg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	0.032	0.10	
					Annual Mean	<0.032			
					Annual Max	<0.032			
PCB 1254	EPA 8082	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	130	420	
					Annual Mean	<130			
					Annual Max	<130			
PCB 1254 wet weight	EPA 8082	mg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	0.030	0.099	
					Annual Mean	<0.030			
					Annual Max	<0.030			
	EPA 8082	mg/kg	Plant 2	Dewatering Cake	01/04/2022	ND	0.031	0.10	
					Annual Mean	<0.031			
					Annual Max	<0.031			
PCB 1260	EPA 8082	µg/kg dry	Plant 1	Dewatering Cake	01/04/2022	ND	130	420	
					Annual Mean	<130			
					Annual Max	<130			
PCB 1260 wet weight	EPA 8082	mg/kg	Plant 1	Dewatering Cake	01/04/2022	ND	0.030	0.099	
					Annual Mean	<0.030			
					Annual Max	<0.030			
	EPA 8082	mg/kg	Plant 2	Dewatering	01/04/2022	ND	0.031	0.10	
					Annual Mean	<0.031			
					Annual Max	<0.031			

Appendix C: Summary of Biosolids Monitoring Results

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.

Footnotes:

- Due to laboratory instrumentation issues and hold times limitations, the Ammonia values for 1/4/2022, 5/3/2022 and 5/10/2022 were analyzed at a laboratory that did not have AZ Certification.

APPENDIX D- EPA Biosolids Annual Report Electronic Forms



**EPA Biosolids Annual Report Electronic Form, Plant No. 1
EPA Biosolids Annual Report Electronic Form, Plant No. 2**



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 General Permit Reports

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

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

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

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).

27994

Reporting Period Start Date: 01/01/2022

Reporting Period End Date: 12/31/2022

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 6010 - Molybdenum (ICP-OES)
- EPA Method 6010 - Nickel (ICP-OES)
- EPA Method 6010 - Selenium (ICP-OES)
- EPA Method 6010 - Zinc (ICP-OES)
- EPA Method 6010 - Beryllium (ICP-OES)
- EPA Method 351.2 - Total Kjeldahl Nitrogen
- Standard Method 4500-N - Nitrogen
- Standard Method 2540 - Total Solids
- Standard Method 2540 - Volatile Solids
- EPA Method 9045 - pH (> 7% solids)

Other Analytical Methods

- Other Nitrogen Analytical Method

Other Analytical Methods Text Area:

EPA 300.0

Sludge Management - Land Application

ID: 012

Amount: 5743

Management Practice Detail: Agricultural Land Application

Bulk or Bag/Container: Bulk

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

NPDES ID of handler:

Facility Information:

Tule/Ag Tech
4324 Ashlan Ave
Fresno, CA 93726
US

Contact Information:

Kurt Wyrick
Controller
559-222-7736 ext. 102
kurt@westexp.com

Pathogen Class: Class B

Sewage Sludge or Biosolids Pathogen Reduction Options:

- Class B-Alternative 2 PSRP 3: Anaerobic Digestion

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 - Volatile Solids Reduction
- Option 10 - Sewage Sludge Timely Incorporation into Land

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

YES NO UNKNOWN

Monitoring Data

INSTRUCTIONS: Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18)). 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: <u>01/01/2022</u>	Compliance Monitoring Period End Date: <u>02/28/2022</u>
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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	=	1.3	
Copper	=	510	
Lead	=	6.6	
Mercury	=	1	
Molybdenum	=	17	
Nickel	=	27	

NICKEL	=	21	
Selenium	=	11	
Zinc	=	830	

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\(f\)](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	=	66	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	9.9	
Cadmium	=	1.1	
Copper	=	427.5	
Lead	=	5.6	
Mercury	=	0.65	
Nickel	=	24.5	
Selenium	=	8	
Zinc	=	722.5	

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.

Solids, total volatile percent removal Option 1 - Volatile Solids Reduction = 54.8

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	8.2	
Cadmium	=	1.5	
Copper	=	485	
Lead	=	5.9	
Mercury	=	0.58	
Nickel	=	27.8	
Selenium	=	8.2	
Zinc	=	805	

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)	=	75000	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date:

05/01/2022

Compliance Monitoring Period End Date:

06/30/2022

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)	8.4	
Cadmium	=	1.2	
Copper	=	480	
Lead	=	7.7	
Mercury	=	0.9	
Molybdenum	=	15.5	
Nickel	=	31	
Selenium	=	8.1	
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\(f\)](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	=	56.8	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	7.8	

Cadmium	=	1.1	
Copper	=	452.5	
Lead	=	6.5	
Mercury	=	0.66	
Nickel	=	28.3	
Selenium	=	7.3	
Zinc	=	757.5	

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)	=	77500	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date:
07/01/2022

Compliance Monitoring Period End Date:
08/31/2022

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)	8.4	
Cadmium	=	1	
Copper	=	490	
Lead	=	4.9	
Mercury	=	0.7	
Molybdenum	=	17	
Nickel	=	31	
Selenium	=	8.2	
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\(f\)](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	=	60.4	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	8.2	
Cadmium	=	0.79	
Copper	=	455	
Lead	=	3.5	
Mercury	=	0.67	
Nickel	=	28.5	
Selenium	=	7.9	
Zinc	=	807.5	

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)	=	60750	

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	<	12	
Cadmium	=	1.6	
Copper	=	520	
Lead	=	4.6	
Mercury	=	0.9	
Molybdenum	=	18	
Nickel	=	36	
Selenium	=	10	
Zinc	=	880	

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\(f\)](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	=	48.7	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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	
Cadmium	=	1.4	
Copper	=	495	
Lead	=	3.2	
Mercury	=	0.75	
Nickel	=	31.8	
Selenium	=	8.5	
Zinc	=	810	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	34250	

Compliance Monitoring Event No. 6

Compliance Monitoring Period Start Date:
11/01/2022

Compliance Monitoring Period End Date:
12/31/2022

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
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Arsenic	=	9.8	
Cadmium	=	1.5	
Copper	=	520	
Lead	=	5.2	
Mercury	=	0.9	
Molybdenum	=	16	
Nickel	=	31	
Selenium	=	9.2	
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\(f\)](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	=	42.9	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	9.1	
Cadmium	=	1.4	
Copper	=	495	
Lead	J (Below RL but Above MDL)	3.2	

Mercury	=	0.65	
Nickel	=	28.5	
Selenium	=	8.5	
Zinc	=	765	

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)	=	61750	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 008

Amount: 56

Management Practice Detail: Use as Daily Cover for Municipal Landfill (under 40 CFR 258)

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

NPDES ID of handler:

Facility Information:

Orange County Waste Recycling-Prima Descheca Landfill
32250 Avenida La Pata
San Juan Capistrano, CA 92675
US

Contact Information:

Jeff Arbour
Environmental Services Manager
714-834-4056
jeff.arbour@ocwr.ocgov.com

Pathogen Class: Class B

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

ID: 009

Amount: 27

Management Practice Detail: Use as Daily Cover for Municipal Landfill (under 40 CFR 258)

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

NPDES ID of handler:

Facility Information:

Holloway Environmental
 13850 Holloway Road
 Lost Hills, CA 93249
 US

Contact Information:

Dan Allen
 Chief Operating Officer
 661-758-6485
 dan.allen@hmholloway.com

Pathogen Class: Class B

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

ID: 010Amount: 3428**Management Practice Detail:** Other**Other Management Practice Detail Description:** Heat dried pellets >90% solids**Handler, Preparer, or Applier Type:** Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:

Rialto Bioenergy Facility (Anaergia)
 503 East Santa Ana Avenue
 Rialto, CA 92316
 US

Contact Information:

John Hutson
 Facility Manager
 224-500-7712
 john.hutson@anaergia.com

Pathogen Class: Class A EQ

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

ID: 013Amount: 4869**Management Practice Detail:** Other**Other Management Practice Detail Description:** Composting Facility is classified as 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: 014Amount: 4049**Management Practice Detail:** Other**Other Management Practice Detail Description:** Composting Facility is classified as 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: 015

Amount: 9230

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility is classified as 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 Hill, 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: 016

Amount: 543

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility is classified as Class 1 Sludge Management Facility.

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

NPDES ID of handler:

Facility Information:

Synagro-Arizona
5615 S. 91st Ave
Tolleson, CA 85353
US

Contact Information:

Craig Geyer
Area Director of Composting
623-936-6328
cgeyer@synagro.com

Pathogen Class: Class A EQ

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

ID: 017

Amount: 50

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility is classified as Class 1 Sludge Management Facility.

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

NPDES ID of handler:

Facility Information:

Inland Empire Empire Composting
13645 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. -Rialto Bioenergy Facility (RBF) started receiving up to 100 tons per day of OC San biosolids in September 2021. The RBF tonnages are reported in the Other Management Practice section as ID 010. -Synagro-Nursery Products lab reports for NP Allgro Batch 5.2.22 and Batch 5.9.22 showed Salmonella results of > 3 MPN/4g. These batches of compost have been quarantined and was re-sampled in June 2022 and passed for Salmonella. -For SSUID ID's where there were compliance events that have option F (No Sampling or Analysis Conducted - Other Reason), the reason is that OC San did not send materials to those sites for the months.

Additional Attachments

Name	Created Date	Size
1_Biosolid_Annual_Rept_2022 - part 1 for upload_1.pdf	02/16/2023 4:19 PM	921.04 KB
2_Biosolid_Annual_Rept_2022 - Appx A- part 2 for upload.pdf	02/16/2023 4:20 PM	3.12 MB
3_Biosolid_Annual_Rept_2022 - Appx B-C- part 3 for upload.pdf	02/16/2023 4:21 PM	1.18 MB
4_Biosolid_Annual_Rept_2022 - Appx E- part 4 for upload.pdf	02/16/2023 4:21 PM	489.19 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: 02/16/2023 6:35 PM





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 General Permit Reports

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

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

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

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).

17420

Reporting Period Start Date: 01/01/2022

Reporting Period End Date: 12/31/2022

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):

Anaerobic Digestion

Processes to Further Reduce Pathogens (PFRP):

Physical Treatment Options:

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

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

Other Processes to Manage Sewage Sludge:

Methane or Biogas Capture and Recovery

Analytical Methods

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

Analytical Methods

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

Other Analytical Methods

- Other Nitrogen Analytical Method

Other Analytical Methods Text Area:

EPA 300.0

Sludge Management - Land Application

ID: 005

Amount: 10950

Management Practice Detail: Agricultural Land Application

Bulk or Bag/Container: Bulk

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

NPDES ID of handler:

Facility Information:

Tule Ranch/Ag Tech
4324 E. Ashlan Ave
Fresno, CA 93726
US

Contact Information:

Kurt Wyrick
Controller
559-222-7736 ext. 102
kurt@westexp.com

Pathogen Class: Class B

Sewage Sludge or Biosolids Pathogen Reduction Options:

- Class B-Alternative 2 PSRP 3: Anaerobic Digestion

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 - Volatile Solids Reduction
- Option 10 - Sewage Sludge Timely Incorporation into Land

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

YES NO UNKNOWN

Monitoring Data

INSTRUCTIONS: Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18)). 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: <u>01/01/2022</u>	Compliance Monitoring Period End Date: <u>02/28/2022</u>
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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	=	1.3	
Copper	=	370	
Lead	=	3.7	
Mercury	=	1	
Molybdenum	=	19	

Nickel	=	29	
Selenium	=	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\(f\)](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	=	57.7	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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	=	11.7	
Cadmium	=	1.3	
Copper	=	335	
Lead	=	3.5	
Mercury	=	0.72	
Nickel	=	27.3	
Selenium	=	10.4	
Zinc	=	677.5	

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	Value	Parameter Concentration (mg/kg, dry-weight)	If No Data, Select One Of The
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Parameter	Qualifier	basis)	Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	54250	

Compliance Monitoring Event No. 2

Compliance Monitoring Period Start Date:
03/01/2022

Compliance Monitoring Period End Date:
04/30/2022

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	=	12	
Cadmium	=	1.4	
Copper	=	370	
Lead	=	7.4	
Mercury	=	0.49	
Molybdenum	=	21	
Nickel	=	30	
Selenium	=	9.1	
Zinc	=	700	

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\(f\)](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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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	=	10.9	
Cadmium	=	1.2	
Copper	=	362.5	
Lead	=	5.1	
Mercury	=	0.46	
Nickel	=	28.8	
Selenium	=	8.9	
Zinc	=	685	

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)	=	60250	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date:

05/01/2022

Compliance Monitoring Period End Date:

06/30/2022

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	=	12	
Cadmium	=	1.4	
Copper	=	390	
Lead	=	5.3	
Mercury	=	0.49	
Molybdenum	=	20	
Nickel	=	26	
Selenium	=	9.9	
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\(f\)](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	=	56.8	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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	=	11.2	
Cadmium	=	1.3	
Copper	=	357.5	

Copper	=	4.2	
Lead	=	4.2	
Mercury	=	0.42	
Nickel	=	25	
Selenium	=	8.8	
Zinc	=	662.5	

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)	=	67000	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date:
07/01/2022

Compliance Monitoring Period End Date:
08/31/2022

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	=	1.8	
Copper	=	400	
Lead	=	1.4	
Mercury	=	0.71	
Molybdenum	=	22	
Nickel	=	30	
Selenium	=	9.8	
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\(f\)](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	=	61.2	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	10.3	
Cadmium	=	1.2	
Copper	=	340	
Lead	J (Below RL but Above MDL)	0.89	
Mercury	=	0.59	
Nickel	=	26.5	
Selenium	=	8.6	
Zinc	=	692.5	

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)	=	50750	

Compliance Monitoring Event No. 5

Compliance Monitoring Period Start Date:
09/01/2022

Compliance Monitoring Period End Date:
10/31/2022

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	=	16	
Cadmium	=	1.5	
Copper	=	400	
Lead	=	3.5	
Mercury	=	0.43	
Molybdenum	=	20	
Nickel	=	25	
Selenium	=	9.7	
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\(f\)](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	=	62.9	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	11.5	
Cadmium	=	1.2	
Copper	=	362.5	
Lead	J (Below RL but Above MDL)	1.7	
Mercury	=	0.39	
Nickel	=	23.8	
Selenium	=	8.8	
Zinc	=	682.5	

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)	=	40500	

Compliance Monitoring Event No. 6

Compliance Monitoring Period Start Date:

11/01/2022

Compliance Monitoring Period End Date:

12/31/2022

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)	13	

Cadmium	=	1.3	
Copper	=	370	
Lead	=	4.9	
Mercury	=	0.82	
Molybdenum	=	18	
Nickel	=	24	
Selenium	=	9.3	
Zinc	=	700	

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\(f\)](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	=	51.3	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	11.1	
Cadmium	=	1.2	
Copper	=	352.5	
Lead	J (Below RL but Above MDL)	2.2	
Mercury	=	0.63	

Nickel	=	22.8	
Selenium	=	8.9	
Zinc	=	660	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	53500	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 004

Amount: 341

Management Practice Detail: Other

Other Management Practice Detail Description: Heat dryer to >90%

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

NPDES ID of handler:

Facility Information:

Rialto Bioenergy Facility (Anaergia)
503 East Santa Ana Avenue
Rialto, CA 92316
US

Contact Information:

John Hutson
Facility Manager
224-500-7712
jhutson@anaergia.com

Pathogen Class: Class A EQ

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

ID: 006

Amount: 2124

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility is classified as 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

ID: 007

Amount: 4005

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility is classified as 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 Hill, 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

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 is available at www.ocsan.gov/503. - Rialto Bioenergy Facility (RBF) started receiving up to 100 tons per day of OC San biosolids in September 2021. The RBF tonnages are reported in the Other Management Practice section as ID 004. Please contact Cindy Vellucci at cvellucci@ocsan.gov or 714-593-7156 if you have any questions. -For SSUID ID's where there were compliance events that have option F (No Sampling or Analysis Conducted - Other Reason), the reason is that OC San did not send materials to those sites for the months.

Additional Attachments

Name	Created Date	Size
1_Biosolid_Annual_Rept_2022 - part 1 for upload_1.pdf	02/16/2023 4:32 PM	921.04 KB
2_Biosolid_Annual_Rept_2022 - Appx A- part 2 for upload.pdf	02/16/2023 4:32 PM	3.12 MB
3_Biosolid_Annual_Rept_2022 - Appx B-C- part 3 for upload.pdf	02/16/2023 4:33 PM	1.18 MB

4_Biosolid_Annual_Rept_2022 - Appx E- part 4 for upload.pdf	02/16/2023 4:36 PM	489.19 KB
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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: 02/16/2023 6:37 PM

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: 1/1/2022	Reporting End Date: 12/31/2022
Date: 2/8/2023	AZPDES Permit # (if applicable): Click here to enter text.
Company name (Preparer / Applicator): Orange County Sanitation District, Plant No. 1 and Plant No. 2	
Contact Name: Lan C. Wiborg, MPH	Title: Director of Environmental Services
Address: 10844 Ellis Ave., Fountain Valley, CA 92708	E-mail: lwiborg@ocsan.gov
Phone: 714-593-7450	
Please select one of the following options pertaining to your obligation to submit a Biosolids Annual Report. My facility is a:	
<input checked="" type="checkbox"/> POTW with a design flow equal to or greater than 1 MGD Per Day <input checked="" type="checkbox"/> POTW that serves 10,000 people or more <input checked="" type="checkbox"/> Class I Sludge Management Facility as defined by 40 CFR 503.9 <input type="checkbox"/> Biosolids Applicator (Complete Section 5 only) <input type="checkbox"/> Other Click here to enter text.	
What is the estimated total of volume of biosolids or sewage sludge generated at your facility (in dry metric tons)?	
45,414	
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.	
<i>If all biosolids or sewage sludge was sent to a landfill for disposal, you do not need to complete the remainder of this form, as it is only applicable to facilities preparing biosolids or sewage sludge for land application.</i>	
<small>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.</small>	
Signature:	Date: 2/08/23
Title: Director of Environmental Services	

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

2. Generator/Preparers - Biosolids Storage and Treatment Processes

2.1 Please check the box next to the following biosolids or sewage sludge storage practices and treatment processes used on the sewage sludge or biosolids generated or produced at your facility during the reporting period.

Storage Practices

- Biosolids are stored in lined lagoons or impoundments
- Biosolids stored directly on the ground

Physical Treatment Processes

- Preliminary Operations (e.g. sludge grinding, degritting, blending)
- Thickening (e.g. gravity floatation, centrifugation, belt filter press, vacuum filter)
- Sludge lagoon

Pathogen Reduction Operations (PSRP)

- Aerobic Digestion
- Air Drying (or "sludge drying beds")
- Anaerobic Digestion
- Lower Temperature Composting
- Lime Stabilization

Process to Further Reduce Pathogens (PFRP)

- Higher Temperature Composting
- Heat Drying (e.g. flash dryer, spray dryer, rotary dryer)
- Heat Treatment (Liquid sewage sludge is heated to temp of 356 °F (180 °C) or higher for 30 minutes)
- Thermophilic Aerobic Digestion
- Beta Ray Irradiation
- Gamma Ray Irradiation
- Pasteurization

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

3. Generators/Preparers: Disposition of Biosolids or Sewage Treatment Sludge:

3.1 At the beginning of the year, did you have any biosolids or sewage sludge stored on site or remaining from previous years? Include any amount that is being stored anywhere. **No**

If yes provide the following information:

	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

3.2 At the end of the year, are any biosolids or sewage sludge stored on site? **No**

If yes, provide the following information:

	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

3.3 Were biosolids or sewage sludge received from another facility during the year, such as another wastewater treatment plant or another APP permitted facility for further processing? **No**

If yes provide the following information for each facility. Click the plus sign to create as many tables as needed.

Name of Facility		
Location:		
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

3.4. Were biosolids removed from your facility for land application? Include all recipients, including haulers, name, phone number, land applicators, composters, drying facilities, EQB bagging facilities, bulk composting, etc.

Name of Facility	Tule Ranch / Ag-Tech	
Management Practice Type:	Agricultural Land application	
Handler or Preparer Type:	Off-Site Third-Party Handler or Applier	
Management Practice Detail:	Agricultural Land application	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	16,694
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	4,869	Click here to enter text.
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	Choose an item.
Vector Attraction Reduction Method	Option 5 - aerobic treatment	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

Name of Facility	Synagro Arizona Soils	
Management Practice Type:	Composting	
Handler or Preparer Type:	Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	543	Click here to enter text.
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	Choose an item.
Vector Attraction Reduction Method	Option 5 - aerobic treatment	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

Name of Facility	Inland Empire Regional Composting Facility	
Management Practice Type:	Composting	
Handler or Preparer Type:	Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	2,174	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:	Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	13,235	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	4,049	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.

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

4. Generators/Preparers : Biosolids or Sewage Sludge Analytical Methods

Arizona regulations specify that representative samples of sewage sludge that is land applied, placed on a surface disposal site, or fired in a sewage sludge incinerator, must be collected and analyzed. These regulations specify the analytical methods that must be used to analyze samples of sewage sludge.

<i>Parameter</i>	<i>Method Number or Author</i>	<i>Results (if tested)</i>	<i>Comments (required if other)</i>
Pathogens			
Ascaris ova.	No Analytical Method Used	Click here to enter text.	Click here to enter text.
Fecal Coliform	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Helminth ova.	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Salmonella sp. Bacteria	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Total Cultural Viruses	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
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.

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

		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 300.0
Nitrogen	Standard Method 4500-N - Nitrogen	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
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.	Click here to enter text.
Paint Filter Test	No Analytical Method Used	Click here to enter text.	Click here to enter text.

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

pH	EPA Method 9045 - pH (> 7% solids)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Specific Oxygen Uptake Rate	Choose an item.	Click here to enter text.	Click here to enter text.
TCLP	EPA Method 1311 - Toxicity Characteristic Leaching Procedure	See attached OC San Biosolids Management Compliance Report, Appendix C.	Click here to enter text.
Temperature	No Analytical Method Used	See attached OC San Biosolids Management Compliance Report, Appendix A.	Click here to enter text.
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	Choose an item.	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 <u>Cumulative</u> Concentration of Pollutants (kilograms per hectare) in Soil				
<i>Example:</i> 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.
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BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

3. Click here to enter text.	to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	enter text.	enter text.	enter text.	enter text.	enter text.
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