



# Sewage Sludge (Biosolids) Annual Report

EPA Regulations – 503.18, 503.28, 503.48

## INSTRUCTIONS

EPA's sewage sludge regulations ([40 CFR part 503](#)) require certain POTWs and Class I sewage sludge management facilities to submit to an annual biosolids report. POTWs that must submit an annual report include POTWs with a design flow rate equal to or greater than one million gallons per day, and POTWs that serve 10,000 people or more. This is the biosolids annual report form for POTWs and Class I sewage sludge management facilities in the 42 states and all tribes and territories where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge' 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.

Please note that questions with a (\*) are required. Please also note that EPA may contact you after you submit this report for more information regarding your sewage sludge program.

Questions regarding this form should be directed to the NPDES Electronic Reporting Helpdesk at:

- NPDESeReporting@epa.gov OR
- 1-877-227-8965

What action would you like to take? \*

New Biosolids Program Report

## 1. Program Information

Please select the NPDES ID number below for this Sewage Sludge (Biosolids) Annual Report. \*

TNL066958: JONES CREEK WASTEWATER

**IMPORTANT** - If you do not see the NPDES ID associated with your facility (i.e., you only see a blue bar in the above drop down list), you MUST follow the instructions in the "Biosolids User's Guide." A shorter set of instructions to fix this issue are in the "Important Instructions on Accessing Your NPDES ID" document. Both documents are located at: <https://epanet.zendesk.com/hc/en-us/sections/207108787-General-Biosolids>.

**Facility Name:** JONES CREEK WASTEWATER

**Street:** 1198 ROCK CHURCH ROAD

**City:** DICKSON

**State:** TN

**Zip Code:** 37055

1.1 Please select at least one of the following options pertaining to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with [40 CFR 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     a Class I Sludge Management Facility as defined in [40 CFR 503.9](#)
- otherwise required to report (e.g., permit condition, enforcement action)     none of the above

1.2 Reporting Period Start and End Dates

Start Date of Reporting Period \*

End Date of Reporting Period \*

01-01-2017

12-31-2017

2. Facility Information

2.1 Biosolids or Sewage Sludge Treatment Processes

Please check the box next to the following biosolids or sewage sludge treatment processes that you used on the sewage sludge or biosolids generated or produced at your facility during the reporting period (check one or more that apply). \*

**Pathogen Reduction Operations (see Appendix B to Part 503)**

Processes to Significantly Reduce Pathogens (PSRP)

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

Processes 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 (or 180°C) or higher for 30 min.)
- Thermophilic Aerobic Digestion
- Beta Ray Irradiation
- Gamma Ray Irradiation
- Pasteurization

**Physical Treatment Operations**

- Preliminary Operations (e.g., sludge grinding, degritting, blending)
- Thickening (e.g., gravity and/or flotation thickening, centrifugation, belt filter press, vacuum filter)
- Sludge Lagoon

**Other Processes to Manage Sewage Sludge**

- Temporary Sludge Storage (sewage sludge stored on land 2 years or less, not in sewage sludge unit)
- Long-term Sludge Storage (sewage sludge stored on land 2 years or more, not in sewage sludge unit)
- Methane or Biogas Capture and Recovery
- Other Treatment Process:

2.2 Biosolids or Sewage Sludge Analytical Methods

EPA regulations specify that representative samples of sewage sludge that is applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator must be collected and analyzed. These regulations also specify the analytical methods that must be used to analyze samples of sewage sludge. For example, EPA requires facilities to monitor for the certain parameters, which are listed in Tables 1, 2, 3, and 4 at [40 CFR 503.13](#) and Tables 1 and 2 [40 CFR 503.23](#). See also [40 CFR 503.8](#).

Please check the box next to the following analytic methods used on the sewage sludge or biosolids generated or produced by you or your facility during the reporting period (check one or more that apply). \*

Parameter	Method Number or Author	Description Text for Certification Section
Pathogens	<input type="checkbox"/> Sludge Monitoring - Ascaris ova.	Sludge Monitoring - Ascaris ova., "Test Method for Detecting, Enumerating, and Determining the Viability Ascaris in Sludge (Appendix I)," Control of Pathogens and Vector Attraction in Sewage Sludge", EPA-625-R-92-013, July 2003
	<input type="checkbox"/> Other Ascaris ova. Analytical Method:	
Ascaris ova.		

Parameter	Method Number or Author	Description Text for Certification Section
Enteric viruses	<input type="checkbox"/> ASTM Method D4994 - Enteric Viruses	ASTM Method D4994 - Enteric Viruses, "Standard Practice for Recovery of Viruses From Wastewater Sludges," ASTM International
	<input type="checkbox"/> Other Enteric Viruses Analytical Method:	
Fecal coliform	<input type="checkbox"/> Standard Method 9222 - Fecal Coliform	Standard Method 9222 - Fecal Coliform, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association [Note: This method is only allowable for Class B sewage sludge]
	<input checked="" type="checkbox"/> Standard Method 9221 - Fecal Coliform	Standard Method 9221 - Fecal Coliform, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> EPA Method 1680 - Fecal Coliform	EPA Method 1680 - Fecal Coliform, "Fecal Coliforms in Sewage Sludge by Multiple-Tube Fermentation using Lauryl Tryptose Broth and EC Medium," EPA-821-R-10-003, April 2010
Helminth ova.	<input type="checkbox"/> EPA Method 1681 - Fecal Coliform	EPA Method 1681 - Fecal Coliform, Fecal Coliforms in Sewage Sludge (Biosolids) by MultipleTube Fermentation using A-1 medium, EPA-821-R-04-027, June 2005
	<input type="checkbox"/> Other Fecal Coliform Analytical Method:	
	<input type="checkbox"/> W.A. Yanko Method - Helminth ova.	W.A. Yanko Method - Helminth Ova., "Occurrence of Pathogens in Distribution and Marketing Municipal Sludges," EPA-600-1-87-014, 1987
Salmonella sp. Bacteria	<input type="checkbox"/> Other Helminth ova. Analytical Method:	
	<input type="checkbox"/> Standard Method 9260 - Salmonella	Standard Method 9260 - Salmonella, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
Total Culturable Viruses	<input type="checkbox"/> EPA Method 1682 - Salmonella	EPA Method 1682, "Salmonella in Sewage Sludge (Biosolids) by Modified Semisolid Rappaport-Vassiliadis (MSRV) Medium," EPA-821-R-06-014, July 2006
	<input type="checkbox"/> Kenner and Clark Method - Salmonella	Kenner and Clark Method - Salmonella, "Detection and Enumeration of Salmonella and Pseudomonas aeruginosa," J. Water Pollution Control Federation, 46(9):2163-2171, 1974
	<input type="checkbox"/> Other Salmonella sp. Bacteria Analytical Method:	
Total Culturable Viruses	<input type="checkbox"/> Class A Sludge Monitoring - Total Culturable Viruses	EPA Class A Sludge Monitoring - Total Culturable Viruses, "Method for the Recovery and Assay of Total Culturable Viruses from Sludge (Appendix H)," Control of Pathogens and Vector Attraction in Sewage Sludge, EPA-625-R-92-013, July 2003
	<input type="checkbox"/> Other Total Culturable Viruses Analytical Method:	
<b>Metals</b>		
Arsenic	<input checked="" type="checkbox"/> EPA Method 6010 - Arsenic (ICP-OES)	EPA Method 6010 - Arsenic (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Arsenic (ICP-MS)	EPA Method 6020 - Arsenic (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Arsenic (GF-AAS)	EPA Method 7010 - Arsenic (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7061 - Arsenic (AA-GH)	EPA Method 7061 - Arsenic (Atomic Absorption - Gaseous Hydride), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Arsenic Analytical Method:	
Beryllium	<input checked="" type="checkbox"/> EPA Method 6010 - Beryllium (ICP-OES)	EPA Method 6010 - Beryllium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Beryllium (ICP-MS)	EPA Method 6020 - Beryllium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Beryllium (FAAS)	EPA Method 7000 - Beryllium (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Beryllium (GF-AAS)	EPA Method 7010 - Beryllium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Beryllium Analytical Method	

Parameter	Method Number or Author	Description Text for Certification Section
Cadmium	<input checked="" type="checkbox"/> EPA Method 6010 - Cadmium (ICP-OES)	EPA Method 6010 - Cadmium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Cadmium (ICP-MS)	EPA Method 6020 - Cadmium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Cadmium (FAAS)	EPA Method 7000 - Cadmium (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Cadmium (GF-AAS)	EPA Method 7010 - Cadmium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7131 - Cadmium (GF-AAS)	EPA Method 7131 - Cadmium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Cadmium Analytical Method:	
Chromium	<input checked="" type="checkbox"/> EPA Method 6010 - Chromium (ICP-OES)	EPA Method 6010 - Chromium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Chromium (ICP-MS)	EPA Method 6020 - Chromium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Chromium (FAAS)	EPA Method 7000 - Chromium (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Chromium (GF-AAS)	EPA Method 7010 - Chromium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7191 - Chromium (AA-FT)	EPA Method 7191 - Chromium (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Chromium Analytical Method:	
Copper	<input checked="" type="checkbox"/> EPA Method 6010 - Copper (ICP-OES)	EPA Method 6010 - Copper (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Copper (ICP-MS)	EPA Method 6020 - Copper (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Copper (FAAS)	EPA Method 7000 - Copper (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Copper (GF-AAS)	EPA Method 7010 - Copper (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Copper Analytical Method:	
Lead	<input checked="" type="checkbox"/> EPA Method 6010 - Lead (ICP-OES)	EPA Method 6010 - Lead (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Lead (ICP-MS)	EPA Method 6020 - Lead (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Lead (FAAS)	EPA Method 7000 - Lead (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Lead (GF-AAS)	EPA Method 7010 - Lead (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7421 - Lead (AA-FT)	EPA Method 7421 - Lead (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Mercury	<input type="checkbox"/> Other Lead Analytical Method:	
	<input checked="" type="checkbox"/> EPA Method 7471 - Mercury (CVAA)	EPA Method 7471 - Mercury in Solid or Semi-Solid Waste (Cold Vapor Atomic Absorption), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input checked="" type="checkbox"/> Other Mercury Analytical Method:	SW7470 & SW245.5

Parameter	Method Number or Author	Description Text for Certification Section
Molybdenum	<input checked="" type="checkbox"/> EPA Method 6010 - Molybdenum (ICP-OES)	EPA Method 6010 - Molybdenum (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Molybdenum (ICP-MS)	EPA Method 6020 - Molybdenum (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Molybdenum (FAAS)	EPA Method 7000 - Molybdenum (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Molybdenum (GF-AAS)	EPA Method 7010 - Molybdenum (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7481 - Molybdenum (AA-FT)	EPA Method 7481 - Molybdenum (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Molybdenum Analytical Method:	
Nickel	<input checked="" type="checkbox"/> EPA Method 6010 - Nickel (ICP-OES)	EPA Method 6010 - Nickel (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Nickel (ICP-MS)	EPA Method 6020 - Nickel (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Nickel (FAAS)	EPA Method 7000 - Nickel (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Nickel (GF-AAS)	EPA Method 7010 - Nickel (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Nickel Analytical Method:	
Selenium	<input checked="" type="checkbox"/> EPA Method 6010 - Selenium (ICP-OES)	EPA Method 6010 - Selenium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Selenium (ICP-MS)	EPA Method 6020 - Selenium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Selenium (GF-AAS)	EPA Method 7010 - Selenium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7740 - Selenium (AA-FT)	EPA Method 7740 - Selenium (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7741 - Selenium (AA-GH)	EPA Method 7741 - Selenium (Atomic Absorption - Gaseous Hydride), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Selenium Analytical Method:	
Zinc	<input checked="" type="checkbox"/> EPA Method 6010 - Zinc (ICP-OES)	EPA Method 6010 - Zinc (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Zinc (ICP-MS)	EPA Method 6020 - Zinc (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Zinc (FAAS)	EPA Method 7000 - Zinc (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Zinc (GF-AAS)	EPA Method 7010 - Zinc (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Zinc Analytical Method:	
<b>Nitrogen Compounds</b>		
Ammonia Nitrogen	<input type="checkbox"/> EPA Method 350.1 - Ammonia Nitrogen	EPA Method 350.1 - Ammonia Nitrogen, "Determination of Ammonia Nitrogen by Semi-Automated Colorimetry," August 1993
	<input checked="" type="checkbox"/> Standard Method 4500-NH3 - Ammonia Nitrogen	Standard Method 4500-NH3 - Ammonia Nitrogen, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Ammonia Nitrogen Analytical Method	

Parameter	Method Number or Author	Description Text for Certification Section
Nitrate Nitrogen	<input type="checkbox"/> EPA Method 9056 - Nitrate Nitrogen (IC)	EPA Method 9056 - Nitrate Nitrogen (Ion Chromatography), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 9210 - Nitrate Nitrogen (ISE)	EPA Method 9210 - Nitrate Nitrogen (Ion-Selective Electrode), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input checked="" type="checkbox"/> Other Nitrate Nitrogen Analytical Method:	E353.2
Nitrogen	<input type="checkbox"/> Standard Method 4500-N - Nitrogen	Standard Method 4500-N - Nitrogen, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Nitrogen Analytical Method:	
Organic Nitrogen	<input type="checkbox"/> Standard Method 4500-Norg - Organic Nitrogen	Standard Method 4500-Norg - Organic Nitrogen, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Organic Nitrogen Analytical Method:	
Total Kjeldahl Nitrogen	<input checked="" type="checkbox"/> EPA Method 351.2 - Total Kjeldahl Nitrogen	EPA Method 351.2 - Total Kjeldahl Nitrogen, "Determination of Total Kjeldahl Nitrogen by Semi-Automated Colorimetry," August 1993
	<input type="checkbox"/> Other Total Kjeldahl Nitrogen Analytical Method:	
<b>Other Analytes</b>		
Fixed Solids	<input type="checkbox"/> Standard Method 2540 - Fixed Solids	Standard Method 2540 - Total, fixed, and volatile solids, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Fixed Solids Analytical Method:	
Paint Filter Test	<input type="checkbox"/> EPA Method 9095 - Paint Filter Liquids Test	EPA Method 9095 - Paint Filter Liquids Test, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Paint Filter Test Analytical Method:	
pH	<input type="checkbox"/> EPA Method 9040 - pH ( $\leq$ 7% solids)	EPA Method 9040 - pH ( $\leq$ 7% solids), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input checked="" type="checkbox"/> EPA Method 9045 - pH ( $>$ 7% solids)	EPA Method 9045 - pH ( $>$ 7% solids), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other pH Analytical Method:	
Specific Oxygen Uptake Rate	<input type="checkbox"/> Standard Method 2710 - SOUR	Standard Method 2710 - Specific Oxygen Uptake Rate, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Specific Oxygen Uptake Rate Analytical Method:	
TCLP	<input type="checkbox"/> EPA Method 1311 - Toxicity Characteristic Leaching Procedure	EPA Method 1311 - Toxicity Characteristic Leaching Procedure, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other TCLP Analytical Method:	
Temperature	<input type="checkbox"/> Standard Method 2550 - Temperature	Standard Method 2550 - Temperature, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Temperature Analytical Method:	
Total Solids	<input checked="" type="checkbox"/> Standard Method 2540 - Total Solids	Standard Method 2540 - Total, fixed, and volatile solids, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Total Solids Analytical Method:	

Parameter	Method Number or Author	Description Text for Certification Section
Volatile Solids	<input checked="" type="checkbox"/> Standard Method 2540 - Volatile Solids	Standard Method 2540 - Total, fixed, and volatile solids, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Volatile Solids Analytical Method:	
No Analytical Methods	<input type="checkbox"/> No Analytical Methods Used	

2.3 What is the estimated total volume of biosolids or sewage sludge produced at your facility for the reporting period (in dry metric tons)? \*

1508

### 3. Biosolids or Sewage Sludge Management

EPA NPDES regulations at [40 CFR 503](#) only require reporting for land application, surface disposal, or incineration. You have the option to select "Other Management Practice" if you wish to provide more information on how you manage your sewage sludge or biosolids.

Please use the selections below to identify how sewage sludge or biosolids generated or produced at your facility was managed, used, or disposed by you or your facility for the reporting period. You can use the button below to add as many Sewage Sludge Unique Identifier (SSUID) sections as needed to describe how you manage your sewage sludge.

#### SSUID Section

##### Sewage Sludge Unique Identifier (SSUID): 001

Management Practice Type *	Handler, Preparer, or Applier Type *	Management Practice Detail *
Land Application	On-Site Owner or Operator	Agricultural Land Applicaton

**Please Note:** Land Application includes the distribution and marketing (sale or give away) of Class A EQ. "Off-Site Third-Party Handler or Applier" refers to third parties which do not change the quality of the Biosolids. "Off-Site Third-Party Preparer" refers to a third party which changes the quality of the Biosolids.

Bulk or Bag/Container *	Pathogen Class *	Volume Amount (dry metric tons) *
Bulk	Class A EQ (sale/give away)	1701

#### Pollutant Concentrations:

Did the facility land apply bulk sewage sludge when one or more pollutant concentrations in the sewage sludge exceeded a monthly average pollutant concentration in Table 3 of [40 CFR 503.13](#)? \*

Yes  No

#### Biosolids or Sewage Sludge Pathogen Reduction Options

Please use the selections below to identify the pathogen reduction options used by your facility for this sewage sludge unique identifier for the reporting period (check one or more that apply). \*

- | Code                                | <b>Pathogen Reduction Option</b>   |  |
|-------------------------------------|--|--|
|                                     | <b>Class A (must also demonstrate that meet fecal coliform or salmonella limits)</b> |  |
| <input type="checkbox"/>            | A1   | Class A-Alternative 1: Time/Temperature  |
| <input checked="" type="checkbox"/> | A2   | Class A-Alternative 2: pH/Temperature/Percent Solids                               |
| <input type="checkbox"/>            | A3   | Class A-Alternative 3: Test Enteric Viruses and Helminth ova; Operating Parameters |
| <input type="checkbox"/>            | A4   | Class A-Alternative 4: Test Enteric Viruses and Helminth ova; No New Solids        |
| <input type="checkbox"/>            | A51  | Class A-Alternative 5 PFRP 1: Composting   |
| <input type="checkbox"/>            | A52  | Class A-Alternative 5 PFRP 2: Heat Drying  |
| <input type="checkbox"/>            | A53  | Class A-Alternative 5 PFRP 3: Liquid Heat Treatment                                |
| <input type="checkbox"/>            | A54  | Class A-Alternative 5 PFRP 4: Thermophilic Aerobic Digestion (ATAD)                |
| <input type="checkbox"/>            | A55  | Class A-Alternative 5 PFRP 5: Beta Ray Irradiation                                 |
| <input type="checkbox"/>            | A56  | Class A-Alternative 5 PFRP 6: Gamma Ray Irradiation                                |
| <input type="checkbox"/>            | A57  | Class A-Alternative 5 PFRP 7: Pasteurization                                       |
| <input type="checkbox"/>            | A6   | Class A-Alternative 6: PFRP Equivalency  |
| <input type="checkbox"/>            | pH   | pH Adjustment (Domestic Septage)   |

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

Please use the selections below to identify the vector attraction reduction options used by your facility or another person/facility for this sewage sludge unique identifier for the reporting period (check one or more that apply). \*

#### **Vector Attraction Reduction Options**

- |                                     |     |  |
|-------------------------------------|-----|--|
| <input type="checkbox"/>            | VR1 | Option 1-Volatile Solids Reduction   |
| <input type="checkbox"/>            | VR2 | Option 2-Bench-Scale Volatile Solids Reduction (Anaerobic Bench Test)  |
| <input type="checkbox"/>            | VR3 | Option 3-Bench-Scale Volatile Solids Reduction (Aerobic Bench Test with Percent Solids of Two Percent or Less) |
| <input type="checkbox"/>            | VR4 | Option 4-Specific Oxygen Uptake Rate   |
| <input type="checkbox"/>            | VR5 | Option 5-Aerobic Processing (Thermophilic Aerobic Digestion/Composting)  |
| <input checked="" type="checkbox"/> | VR6 | Option 6-Alkaline Treatment  |
| <input type="checkbox"/>            | VR7 | Option 7-Drying (Equal to or Greater than 75 Percent)  |
| <input type="checkbox"/>            | VR8 | Option 8-Drying (Equal to or Greater than 90 Percent)  |

#### **Noncompliance Reporting**

Please use the check boxes below to indicate any noncompliance with EPA's Federal sewage sludge program requirements (see [40 CFR 503](#)) for this facility during the reporting period. EPA notes that any person who prepares sewage sludge (i.e., person who generates sewage sludge or a person who derives a material from sewage sludge) shall ensure that the applicable requirements in EPA's biosolids regulations ([40 CFR 503](#)) are met when the sewage sludge is applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator (see [40 CFR 503.7](#)).



### Land Application

- Facility land applied bulk sewage sludge or sold or gave away sewage sludge in a bag or other container when one or more pollutant concentrations in the sewage sludge exceeded a land application ceiling pollutant limit (see Table 1 of [40 CFR 503.13](#)).
- Facility failed to properly collect and analyze its sewage sludge in accordance with the required monitoring frequency and approved analytical methods in order to obtain an accurate and representative sample (including appropriate method holding times) (see permit requirements and [40 CFR 503.8](#)).
- Facility had deficiencies with pathogen reduction (see [40 CFR 503.32](#)).
- Facility had deficiencies with vector attraction reduction (see [40 CFR 503.33](#)).
- Land application of bulk sewage sludge likely to adversely affected a threatened or endangered species listed under Section 4 of the Endangered Species Act or its designated critical habitat (see [40 CFR 503.14\(a\)](#)).
- Bulk sewage sludge was applied to agricultural land, forest, a public contact site, or a reclamation site that was flooded, frozen, or snow-covered such that the bulk sewage sludge entered a wetland or other waters of the United States, as defined in [40 CFR 122.2](#), except as provided in a permit issued pursuant to Section 402 or 404 of the CWA (see [40 CFR 503.14\(b\)](#)).
- Bulk sewage sludge was applied to agricultural land, forest, or a reclamation site was 10 meters or less from waters of the United States, as defined in [40 CFR 122.2](#), unless otherwise specified by the permitting authority (see [40 CFR 503.14\(c\)](#)).
- Bulk sewage sludge was applied to agricultural land, forest, a public contact site, or a reclamation site at a whole sludge application rate that was greater than the agronomic rate for the bulk sewage sludge, unless, in the case of a reclamation site, otherwise specified by the permitting authority (see [40 CFR 503.14\(d\)](#)).
- One or more label or information sheet requirements were not met for sewage sludge that was sold or given away for land application (see [40 CFR 503.14\(e\)](#)).
- Bulk sewage sludge was applied to land where the cumulative pollutant loading rates in [§503.13\(b\)\(2\)](#) have been reached.
- The required notice and information was not provided to the land application applier (see [40 CFR 503.12\(f\) and \(g\)](#)).
- The required notice and information was not provided to the owner or lease holder of the land on which bulk sewage sludge was applied (see [40 CFR 503.12\(h\)](#)).
- The required notice was not provided to the permitting authority for the State in which bulk sewage sludge was applied if the bulk sewage sludge was applied to land in a State other than the State in which the bulk sewage sludge was prepared (see [40 CFR 503.12\(i\) and \(j\)](#)).
- The facility failed to keep the necessary records for preparers and appliers during the reporting period (see [40 CFR 503.27](#)).

**Please select this checkbox to continue completing the form.  
If you wish to change the SSUID section(s) above, uncheck this box. \***

### Biosolids Monitoring Data

**INSTRUCTIONS:** These monitoring data should be representative of the sewage sludge that was applied to land or placed on a surface disposal site during the reporting year see [40 CFR 503.8\(a\)](#). This section uses the frequency of monitoring requirements in [40 CFR 503.16](#) and [503.26](#). The following codes can be used as data qualifiers: T = Too Numerous to Count, E = Estimated, N = No Data.

### Land Application Monthly Sample Table

Sample	Sample Period Start Date	Sample Period End Date
Sample 1 Time Period	01-01-2017	03-31-2017
Sample 2 Time Period	04-01-2017	06-30-2017
Sample 3 Time Period	07-01-2017	09-30-2017
Sample 4 Time Period	10-01-2017	12-31-2017
Sample 5 Time Period	09-01-2017	10-31-2017
Sample 6 Time Period	11-01-2017	12-31-2017

#### Maximum Pollutant Concentration Data for All Sewage Sludge Applied to Land \*

This section summarizes the maximum pollutant concentrations in sewage sludge that was applied to land during the reporting year. In accordance with [40 CFR 503.13\(a\)](#), EPA's sewage sludge 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 ([see Table 1 of 40 CFR 503.13](#)). In order to identify noncompliance, EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of [40 CFR 503.13](#).

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type		
Arsenic	Maximum	mg/kg	COMPOS		
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
< 0.961	< 0.99	= 10.4	= 11.1	= 0	= 0

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type		
Cadmium	Maximum	mg/kg	COMPOS		
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
= 2.33	= 2.84	= 0.332	= 0.144	= 0	= 0

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type		
Copper	Maximum	mg/kg	COMPOS		
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
= 24	= 27.9	= 36.2	= 30.8	= 0	= 0

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type		
Lead	Maximum	mg/kg	COMPOS		
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
< 0.288	< 0.297	= 4.74	= 4.79	= 0	= 0

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type						
Mercury	Maximum	mg/kg	COMPOS						
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6				
< 0.00186	< 0.002	= 0.116	= 0.0969	= 0	= 0				

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type						
Molybdenum	Maximum	mg/kg	COMPOS						
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6				
= 4.38	= 6.05	= 3.68	= 4.26	= 0	= 0				

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type						
Nickel	Maximum	mg/kg	COMPOS						
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6				
= 12.7	= 23.2	= 20.6	= 21.2	= 0	= 0				

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type						
Selenium	Maximum	mg/kg	COMPOS						
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6				
= 12.7	= 17.9	= 1.88	= 2.45	= 0	= 0				

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type						
Zinc	Maximum	mg/kg	COMPOS						
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6				
= 36.4	= 22.4	= 90.4	= 83.3	= 0	= 0				

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type						
Total Nitrogen (TKN plus Nitrate-Nitrite)	Average	mg/kg	COMPOS						
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6				
= 1554.15	= 1914	= 2884	= 5082.14	= 0	= 0				

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

This section summarizes the monitoring-period average pollutant concentrations in sewage sludge that was applied to land during the reporting year.

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type						
Arsenic	Average	mg/kg	COMPOS						
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6				
< 0.961	< 0.99	= 10.4	= 11.1	= 0	= 0				

Biosolids or Sewage Sludge Monitored Parameter		Measurement Type		Unit of Measure (Dry Weight)		Sample Type					
Cadmium		Average		mg/kg		COMPOS					
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6	
=	2.33	=	2.84	=	0.332	=	0.144	=	0	=	0

Biosolids or Sewage Sludge Monitored Parameter		Measurement Type		Unit of Measure (Dry Weight)		Sample Type					
Copper		Average		mg/kg		COMPOS					
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6	
=	24	=	27.9	=	36.2	=	30.8	=	0	=	0

Biosolids or Sewage Sludge Monitored Parameter		Measurement Type		Unit of Measure (Dry Weight)		Sample Type					
Lead		Average		mg/kg		COMPOS					
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6	
<	0.288	<	0.297	=	4.74	=	4.79	=	0	=	0

Biosolids or Sewage Sludge Monitored Parameter		Measurement Type		Unit of Measure (Dry Weight)		Sample Type					
Mercury		Average		mg/kg		COMPOS					
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6	
<	0.00186	<	0.002	=	0.116	=	0.0969	=	0	=	0

Biosolids or Sewage Sludge Monitored Parameter		Measurement Type		Unit of Measure (Dry Weight)		Sample Type					
Nickel		Average		mg/kg		COMPOS					
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6	
=	12.7	=	23.2	=	20.6	=	21.2	=	0	=	0

Biosolids or Sewage Sludge Monitored Parameter		Measurement Type		Unit of Measure (Dry Weight)		Sample Type					
Selenium		Average		mg/kg		COMPOS					
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6	
=	12.7	=	17.9	=	1.88	=	2.45	=	0	=	0

Biosolids or Sewage Sludge Monitored Parameter		Measurement Type		Unit of Measure (Dry Weight)		Sample Type					
Zinc		Average		mg/kg		COMPOS					
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6	
=	36.4	=	22.4	=	90.4	=	83.3	=	0	=	0

Pathogens: Class A, Fecal Coliform \*

Biosolids or Sewage Sludge Monitored Parameter		Measurement Type		Unit of Measure (Dry Weight)		Sample Type					
Fecal Coliform		Maximum		MPN/gram		COMPOS					
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6	
<	1.1	<	1.1	<	1.1	<	1.0	=	0	=	0

**Pathogens: Class A, Salmonella \***

Biosolids or Sewage Sludge Monitored Parameter		Measurement Type		Unit of Measure (Dry Weight)		Sample Type					
Salmonella		Maximum		MPN per 4 grams		COMPOS					
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6	
=	0	=	0	=	0	=	0	=	0	=	0

**Additional Information**

Please enter any additional information in the comment box below (limit to 3,900 characters) that you would like to provide.

3. Biosolids or Sewage Sludge Management - Sample Periods  
 In accordance to the Frequency of Monitoring table found at CFR 503.16, and based on the sludge quantities generated in the previous four years of "Equal to or greater than 290 and less than 1,500," the decision was made to utilize the corresponding "Once Per Quarter" frequency. Unfortunately, the quantity slightly exceeded coming in at 1,508 and as a result the additional samples were not available. The "Once per 60 days frequency will be reinstated for 2018.

3. Biosolids or Sewage Sludge Management - Biosolids Monitoring Data -Pathogens: Class A, Salmonella:  
 Analysis for Salmonella have not been performed. Without any data entered into this section when attempting to submit--the form would generate an error message stating that monitoring for Salmonella is required for Class A. The understanding from CFR 503.32(a)(4) is that either fecal coliform, or Salmonella, can be utilized. Analysis for fecal coliform have been performed and those results provided. The Pathogen Reduction Option Table in Part 3. "Biosolids or Sewage Sludge Management" of this form also indicates for Class A the "either/or" option.

Additional Attachments (maximum size 25 MB)

**Certification Information**

I certify, under penalty of law, that the information in this report was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Certifier E-Mail *	Form Action *
madams@wadc.us	Approve