40 CFR Part 503 Sewage Sludge Annual Report Review Guide

November 7, 2014

Section 1 - General Facility Information

Reporting Year
EPA NPDES Permit Number
Alternate NPDES Permit Numbers
Facility Name
Facility Address
Authorized Representative Name and Title
Facility Mailing Address
Contact Person Name and Title
Phone Number
Contact Person Email Address

Section 2 – Sewage Sludge Production Information

Quantity of Sewage Sludge on Site on January 1 of the Reporting Year (In Metric Tons, Dry Weight Basis)
Quantity of Sewage Sludge Produced During the Reporting Year (In Metric Tons, Dry Weight Basis)
Quantity of Sewage Sludge received from other facilities during the Reporting Year (In Metric Tons, Dry Weight Basis)
Quantity of Sewage Sludge (In Metric Tons, Dry Weight Basis) During the Reporting Year Transferred to Another Facility
Quantity of Sewage Sludge (In Metric Tons, Dry Weight Basis) During the Reporting Year Sent to:
- Land Application
- Surface Disposal
- Landfill
- Incineration
- Other

Quantity of Sewage Sludge on Site on December 31 of the Reporting Year (In Metric Tons, Dry Weight Basis)

Note: Land Application means the spraying or spreading of sewage sludge onto the land surface the injection of sewage sludge below the land surface, or the incorporation of sewage sludge into the soil so that the sewage sludge can either condition the soil or fertilize crops or vegetation grown in the soil. Surface Disposal means placement of sewage sludge on a surface disposal site. Incineration means the combustion of sewage sludge by high temperatures in an enclosed device. See 40 CFR 503.9, 503.11, 503.21, and 503.41 for more definitions.

Section 3 – Applicability

Is the facility a POTW with a design flow rate equal to or greater than one million gallons per day?
Is the facility a POTW that serves 10,000 people or more?
Is the facility a Class I Sludge Management Facility? Note: Class 1 Sludge Management Facility is defined in 40 CFR 503.9.

If the answers to the three questions above are all “no”, No further reporting is required.

Is any of the sewage sludge generated or produced at the facility Land Applied, Surface Disposed, or Incinerated?
(If yes, then continue. If no, No further reporting is required.)

Does the report meet the specific signatory requirements can be found at the following link:

http://www.ecfr.gov/cgi-bin/text-idx?SID=593dd1d4effda13b80f68a89977ab68a&node=se40.22.122_122&rgn=div8

Is the signature by an authorized representative of the NPDES holder; i.e. the Municipality, and not a contract operator hired by the municipality?

Section 4 - Land Application (40 CFR 503.18)

Is sewage sludge prepared to be applied to the land or are materials derived from sewage sludge to be applied to the land? If yes, the following formation should be provided. If no, go to Surface Disposal Section.5. (Note: A "person who prepares sewage sludge" is defined as either the person who generates sewage sludge during the treatment of domestic sewage in a treatment works or the person who derives a material from sewage sludge.)

Does the report indicate the frequency of monitoring for pollutants, pathogen density and vector attraction reduction was met according to the following table?

TABLE 1 OF § 503.16—FREQUENCY OF MONITORING—LAND APPLICATION

Amount of sewage sludge * (metric tons per 365 day period)	Frequency
Greater than zero but less than 290	Once per year.
Equal to or greater than 290 but less than 1,500	Once per quarter (four times per year).
Equal to or greater than 1,500 but less than 15,000	Once per 60 days (six times per year).
Equal to or greater than 15,000	Once per month (12 times per year).

* Either the amount of bulk sewage sludge applied to the land or the amount of sewage sludge prepared for sale or give-away in a bag or other container for application to the land (dry weight basis).

Does the report indicate all sampling and analysis was conducted using approved methods as described in 40 CFR 503.8 including applicable holding times?

Section 4.A - Class A Biosolids:

Did the facility prepare or derive materials from Class A biosolids? If yes, the following should be provided. If no, go to Class B Biosolids in Section 4.B.

Does the report include the concentration of each pollutant listed in the Pollutant Concentrations - Table 3 of §503.13 in the sewage sludge? (Compare to the data table in Section 7 below)

Does the report identify the Class A Pathogen Alternatives 1–6 (40 CFR §503.32(a)) which were used and include the information listed in Section 8 below for the alternatives?

Does the report Identify the Vector Attraction Reduction Alternatives 1 – 10 (40 CFR §503.33 (b)(1) through (b)(10)) which were used and include the information listed in Section 10 below for the alternatives?

Does the report indicate that pathogen reduction is achieved before or at the same time as vector attraction reduction (except for vector attraction reduction by alkali addition [503.33(b)(6)] or drying [503.33(b)(7) and (8)]). See 503.32(a)(2).

Did the facility sell or give away sewage sludge in bulk for application to the land? If yes, the following Class A Biosolids Given Away or Sold in Bulk - Section 4.A.1 should be completed. If no, go to Class A Biosolids Given Away or Sold in Bags or Other Containers - Section 4.A.2.

Section 4.A.1 - Class A Biosolids Given Away or Sold in Bulk

Does the report include the concentration of each pollutant listed in the Ceiling Concentrations -Table 1 of §503.13 in the bulk sewage sludge. (Compare to the data table in Section 7 below)

Did the facility meet the vector attraction reduction by complying with Methods 1 through 8 in §503.33 (b)(1) through (b)(8)? If yes, is the following certification provided?

> "I certify, under penalty of law, that the information that will be used to determine compliance with the Class A pathogen requirements in §503.32(a) and the vector attraction reduction requirement in [insert one of the vector attraction reduction requirements in §503.33(b)(1) through §503.33(b)(8)] 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."

Did the facility meet the vector attraction reduction by complying with methods 9 or 10 (sewage sludge injected below the surface of the land, or incorporation into the soil) in either §503.33 (b)(9) or (b)(10)? If yes, is the following certification provided?

"I certify, under penalty of law, that the information that will be used to determine compliance with the Class A pathogen requirements in §503.32(a) 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."

Section 4.A.2 - Class A Biosolids Given Away or Sold in Bags or Other Containers

Did the facility sell or give away sewage sludge in bags or other containers? If yes, continue with this section. If no, go to Class B Biosolids - Section 4.B.

Does the sewage sludge meet the pollutant limits of Table 3 of §503.13? If not, does the report include the annual whole sludge application rate for the sewage sludge and the concentration of each pollutant listed in the Annual Pollutant Loading Rates - Table 4 of §503.13 in the sewage sludge? (Compare to the data table in Section 7 below)

Is the following certification statement provided?

"I certify, under penalty of law, that the information that will be used to determine compliance with the management practice in §503.14(e), the Class A pathogen requirement in §503.32(a), and the vector attraction reduction requirement in (insert one of the vector attraction reduction requirements in §503.33(b)(1) through §503.33(b)(8)) 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."

Section 4.B - Class B Biosolids:

Did the facility prepare Class B biosolids? If yes, the following should be completed. If no, go to Surface Disposal - Section 4.C.

Does the report include the concentration of each pollutant listed in the Ceiling Concentrations -Table 1 of §503.13 in the bulk sewage sludge? (Compare to the data table in Section 7 below)

Does the report include the concentration of each pollutant listed in the Pollutant Concentrations - Table 3 of §503.13 in the bulk sewage sludge? (Compare to the data table in Section 7 below)

Is the following certification statement provided?

"I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in §503.32(b) and the vector attraction reduction requirement in (insert one of the vector attraction reduction requirements in §503.33(b)(1) through (b)(8)if one of those requirements is met) 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."

Does the report identify the Class B Pathogen Alternatives 1–3 (40 CFR §503.32(b)) which were used and include the information listed in Section 9.A below for the alternatives?

Does the report include the information listed below in Section 9.B for the Class B Site Restrictions?

Does the report identify the Vector Attraction Reduction Alternatives 1 – 8 (40 CFR §503.33 (b)(1) through (b)(8)) which were used and include the information listed in Section 10 below for the alternatives.

Section 4.C - Cumulative Loading

Do any of the pollutants listed in the Cumulative Pollutants Loading Rates - Table 2 of 503.13 (see data table in Section 7 below) exceed 90 percent of the pollutant loading rates at a land application site? If yes, then the following should be provided. If no, go to Surface Disposal – Section 5:

Does the report include the following?
(A) The location, by either street address or latitude and longitude, of each site on which bulk sewage sludge is applied.
(B) The number of hectares in each site on which bulk sewage sludge is applied.
(C) The date bulk sewage sludge is applied to each site.
(D) The cumulative amount of each pollutant (*i.e.*, kilograms) listed in Table 2 of §503.13 in the bulk sewage sludge applied to each site, including the amount in §503.12(e)(2)(iii).

(E) The amount of sewage sludge (*i.e.*, metric tons) applied to each site.
(F) The following certification statement:

> "I certify, under penalty of law, that the information that will be used to determine compliance with the requirement to obtain information in §503.12(e)(2) was prepared for each site on which bulk sewage sludge was applied 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."

(G) A description of how the requirements to obtain information in §503.12(e)(2) are met.

Section 5 - Surface Disposal (40 CFR 503.28)

Did the facility prepare sewage sludge that is placed on an active sewage sludge unit? If yes, the following should be provided. If no, go to Incineration - Section 6.

Is the sewage sludge domestic septage? If yes, stop and go to Incineration - Section 6. If no, continue.
Note: Domestic septage is defined as either liquid or solid material removed from a septic tank, cesspool, portable toilet, Type II marine sanitation device or similar treatment works. It does not include materials removed from these devices that received either commercial wastewater, or industrial wastewater, and does not include grease (see 40 CFR 503.9).

Does the report indicate the frequency of monitoring for pollutants, pathogen density and vector attraction reduction was met according to the following table?

TABLE 1 OF § 503.26—FREQUENCY OF MONITORING—SURFACE DISPOSAL

Amount of sewage sludge *(metric tons per 365 day period)	Frequency
Greater than zero but less than 290	Once per year.
Equal to or greater than 290 but less than 1,500	Once per quarter (four times per year).
Equal to or greater than 1,500 but less than 15,000	Once per 60 days (six times per year).
Equal to or greater than 15,000	Once per month (12 times per year).

* Amount of sewage sludge placed on an active sewage sludge unit (dry weight basis).

Does the report indicate all sampling and analysis was conducted using approved methods as described in 40 CFR 503.8 including applicable holding times?

Does the report include the concentration of each pollutant listed in the table of POLLUTANT CONCENTRATIONS – ACTIVE SEWAGE SLUDGE UNIT WITHOUT A LINER AND LEACHATE COLLECTION -Table 1 of §503.23? (Compare to data table In Section 7 below).

Is the following certification statement included?

> "I certify, under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in (insert §503.32(a), §503.32(b)(2), §503.32(b)(3), or §503.32(b)(4) when one of those requirements is met) and the vector attraction reduction requirement in (insert one of the vector attraction reduction requirements in §503.33 (b)(1) through (b)(8) if one of those requirements is met) 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".

Does the report identify the Class A Pathogen Alternatives 1–6 (40 CFR §503.32(a)) or the Class B Pathogen Alternatives 1 -3 (40 CFR §503.32(b)) which were used and include the information listed in Section 8 or Section 9.A below for the alternatives?

Does the report Identify the Vector Attraction Reduction Alternatives 1 – 8 (40 CFR §503.33 (b)(1) through (b)(8)) which were used and include the information listed in Section 10 below for the alternatives?

Section 5. A - Owner/Operator of Surface Disposal Site

Does the facility own or operate a surface disposal site? If yes, the following should be provided. If no, go to Incineration – Section 6.

Does the report include the concentration of each pollutant and the distance of unit boundary to the property line listed in the Pollutant Concentrations – Active Sewage Sludge Unit Without a Liner and Leachate Collection System that has a Unit Boundary to Property Line Distance Less than 150 Meters - Table 2 of §503.23? (Compare to data table in Section 7 below).

Are site-specific pollutant concentrations in §503.23(b) applicable? If so are they included?

Is the following certification statement provided?

> "I certify, under penalty of law, that the information that will be used to determine compliance with the management practices in §503.24 and the vector attraction reduction requirement in (insert one of the requirements in §503.33(b)(9) through §503.33(b)(11) if one of those requirements is met) 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."

Does the report include a description of how the management practices in §503.24 are met?

Does the report identify the Vector Attraction Reduction Alternatives 9-11 (40 CFR §503.33 (b)(9) through (b)(11)) which were used and include the information listed in Section 10 below for the alternatives?

Section 6 - Incineration (40 CFR 503.48)

Does the facility fire sewage sludge in a sewage sludge incinerator? If yes, the following should be provided. If no, stop.

Does the report indicate if the frequency of monitoring for beryllium meets Part 61 and the frequency of monitoring for arsenic, cadmium, chromium, lead and nickel meet the following table?

TABLE 1 OF § 503.46—FREQUENCY OF MONITORING—INCINERATION

Amount of sewage sludge * (metric tons per 365 day period)	Frequency
Greater than zero but less than 290	Once per year.
Equal to or greater than 290 but less than 1,500	Once per quarter (four times per year).
Equal to or greater than 1,500 but less than 15,000	Once per 60 days (six times per year).
Equal to or greater than 15,000	Once per month (12 times per year).

* Amount of sewage sludge fired in a sewage sludge incinerator (dry weight basis).

Does the report indicate all sampling and analysis was conducted using approved methods as described in 40 CFR 503.8 including applicable holding times?

Does the report include the following?

The concentration of lead, arsenic, cadmium, chromium, and nickel in the sewage sludge fed to the sewage sludge incinerator.

The total hydrocarbons concentrations in the exit gas from the sewage sludge incinerator stack.

nformation that indicates the requirements in the National Emission Standard for beryllium in subpart C of 40 CFR part 61 are met.

Information that indicates the requirements in the National Emission Standard for mercury in subpart E of 40 CFR part 61 are met.

The operating combustion temperatures for the sewage sludge incinerator.

Values for the air pollution control device operating parameters.

The oxygen concentration and information used to measure moisture content in the exit gas from the sewage sludge incinerator stack.

SECTION 7 – DATA TABLES

CEILING CONCENTRATIONS - TABLE 1 OF §503.13

Pollutant	Ceiling concentration (milligrams per kilogram)[1]
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
Selenium	100
Zinc	7500

[1]Dry weight basis.

CUMULATIVE POLLUTANT LOADING RATES - TABLE 2 OF §503.13

Pollutant	Cumulative pollutant loading rate (kilograms per hectare)
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Nickel	420
Selenium	100
Zinc	2800

POLLUTANT CONCENTRATIONS- TABLE 3 OF §503.13

Pollutant	Monthly average concentration (milligrams per kilogram)[1]
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Nickel	420
Selenium	100
Zinc	2800

[1]Dry weight basis.

ANNUAL POLLUTANT LOADING RATES - TABLE 4 OF §503.13

Pollutant	Annual pollutant loading rate (kilograms per hectare per 365 day period)
Arsenic	2.0
Cadmium	1.9
Copper	75
Lead	15
Mercury	0.85
Nickel	21
Selenium	5.0
Zinc	140

POLLUTANT CONCENTRATIONS – ACTIVE SEWAGE SLUDGE UNIT WITHOUT A LINER AND LEACHATE COLLECTION -TABLE 1 OF §503.23—

Pollutant	Concentration (milligrams per kilograms[1])
Arsenic	73
Chromium	600
Nickel	420

[1]Dry weight basis.

POLLUTANT CONCENTRATIONS – ACTIVE SEWAGE SLUDGE UNIT WITHOUT A LINER AND LEACHATE COLLECTION SYSTEM THAT HAS A UNIT BOUNDARY TO PROPERTY LINE DISTANCE LESS THAN 150 METERS - TABLE 2 OF §503.23—

Unit boundary to property line	Pollutant concentration[1]		
Distance (meters)	Arsenic (mg/kg)	Chromium (mg/kg)	Nickel (mg/kg)
0 to less than 25	30	200	210
25 to less than 50	34	220	240
50 to less than 75	39	260	270
75 to less than 100	46	300	320
100 to less than 125	53	360	390
125 to less than 150	62	450	420

[1]Dry weight basis.

Section 8 - Class A Pathogen Alternatives (40 CFR §503.32(a))

Class A—Alternative 1.

All sample results for either the density of fecal coliform in the sewage sludge (in Most Probable Number per gram of total solids (dry weight basis)) or density of *Salmonella* sp. bacteria in the sewage sludge (in Most Probable Number per four grams of total solids (dry weight basis)).

Did all sludge meet the applicable temperature and time period requirements for the percent solids in the sludge? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Class A—Alternative 2.

All sample results for either the density of fecal coliform in the sewage sludge (in Most Probable Number per gram of total solids (dry weight basis)) or density of *Salmonella* sp. bacteria in the sewage sludge (in Most Probable Number per four grams of total solids (dry weight basis)).

Did all sludge meet the time, temperature and pH requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Did all sewage sludge meet the percent solids requirement? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Class A—Alternative 3.

All sample results for either the density of fecal coliform in the sewage sludge (in Most Probable Number per gram of total solids (dry weight basis)) or density of *Salmonella* sp. bacteria in the sewage sludge (in Most Probable Number per four grams of total solids (dry weight basis)).

All sample results for the density of enteric viruses in the sewage sludge in Plaque-forming units per four grams of total solids (dry weight basis).

All sample results for the density of viable helminth ova in the sewage sludge in Plaque-forming units per four grams of total solids (dry weight basis).

Class A—Alternative 4.

All sample results for either the density of fecal coliform in the sewage sludge (in Most Probable Number per gram of total solids (dry weight basis)) or density of *Salmonella* sp. bacteria in the sewage sludge (in Most Probable Number per four grams of total solids (dry weight basis)).

All sample results for the density of enteric viruses in the sewage sludge in Plaque-forming units per four grams of total solids (dry weight basis)?

All sample results for the density of viable helminth ova in the sewage sludge in Plaque-forming units per four grams of total solids (dry weight basis)?

Class A—Alternative 5.

All sample results for either the density of fecal coliform in the sewage sludge (in Most Probable Number per gram of total solids (dry weight basis)) or density of *Salmonella* sp. bacteria in the sewage sludge (in Most Probable Number per four grams of total solids (dry weight basis))?

The following information regarding treatment in the Processes to Further Reduce Pathogens in appendix B to Part 503:

Composting – Description of the method of composting (within vessel, static aerated pile, or windrow). Did all sludge meet the, mean cell residence time, temperature, and turning requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Heat drying – Did all sludge meet the moisture content and either the temperature of the sewage sludge or wet bulb temperature of the gas in contact with the sludge requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Heat treatment – Did all sludge meet the time and temperature requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Thermophilic Aerobic Digestion – Did all sludge meet the mean cell residence time and temperature requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Beta Ray Irraditaion – Did all sludge meet the Beta rays dosage? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Gama Ray Irradiation – Describe the Gama Ray isotope used (e.g. Cobalt or Cesium). Did all sludge meet the dosage requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Pasteurization – Did all sludge meet the time and temperature requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Class A—Alternative 6.

All sample results for either the density of fecal coliform in the sewage sludge (in Most Probable Number per gram of total solids (dry weight basis)) or density of *Salmonella* sp. bacteria in the sewage sludge (in Most Probable Number per four grams of total solids (dry weight basis))?

A description of the approved Processes to Further Reduce Pathogens used to treat the sludge. Did all sludge meet the process requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Section 9.A - Class B Pathogen Alternatives (40 CFR §503.32(b)(2) though (b)(4))

Class B—Alternative 1.

All samples results and geometric mean of the density of fecal coliform in Most Probable Number per gram of total solids (dry weight basis) or Colony Forming Units per gram of total solids (dry weight basis).

Class B—Alternative 2.

The following information regarding treatment in the Processes to Significantly Reduce Pathogens described in appendix B to Part 503

Aerobic Digestion - Did all sludge meet the mean cell residence time and temperature requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Air Drying – Did all sludge meet the ambient average daily temperature and drying time requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Anaerobic Digestion - Did all sludge meet the mean cell residence time and temperature requirements If no, are the occurrences which did not meet this requirement described and applicable records attached?

Composting – A description of the method of composting (within vessel, static aerated pile, or windrow). Did all sludge meet the, mean cell residence time, and temperature requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Lime Stabilization – Did all sludge meet the pH and contact time requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Class B—Alternative 3.

A description of the approved Processes to Significantly Reduce Pathogens used to treat the sludge. Did all sludge meet the process requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

Section 9.B - Class B *Site Restrictions.* (40 CFR §503.32(b)(5))

Types of food crops, feed crops, fiber crops, and turf harvested.

On land where sludge was applied, were any crops harvested, animals allowed to graze, or public access allowed sooner than the time periods specified in the site restrictions of 503.32(b)(5)? If yes, are the occurrences which did not meet this requirement described and applicable records attached?

Section 10 - Vector Attraction Reduction Alternatives (40 CFR §503.33 (b)(1) through (b)(10)

(1) Did all sludge meet the percent reduction in the mass of volatile solids? If no, are the occurrences which did not meet this requirement described and applicable records attached?

(2) For anaerobically digested sewage sludge, did all sludge meet the time, temperature and percent reduction in volatile solids in the sewage sludge? If no, are the occurrences which did not meet this requirement described and applicable records attached?

(3) For aerobically digested sewage sludge, did all sludge meet the time, temperature and percent reduction in volatile solids in the sewage sludge? If no, are the occurrences which did not meet this requirement described and applicable records attached?

(4) Did all sewage sludge meet the specific oxygen uptake rate (SOUR) in milligrams of oxygen per hour per gram of total solids (dry weight basis) requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

(5) Did all sludge treated in an aerobic process meet the time and temperature requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

(6) Did all sludge meet the pH and time requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

(7) Did all sludge meet the percent solids that does not contain unstabilized solids requirement? If no, are the occurrences which did not meet this requirement described and applicable records attached?

(8) Did all sludge meet the percent solids that contains unstabilized solids requirement? If no, are the occurrences which did not meet this requirement described and applicable records attached?

(9) Did all sewage sludge injected below the surface of the land meet the time requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?

(10) Did all sewage sludge incorporated into the soil meet the time requirements? If no, are the occurrences which did not meet this requirement described and applicable records attached?