

ICR Number XXXX.XX
OMB Control Number: XXXX-XXXX
Expiration Date: mm/dd/yyyy

Plant ID: **Insert Plant ID**
Plant Name: **Insert Plant Name**



**Steam Electric Questionnaire
Second FRN Version Draft**

**PART G - LEACHATE SAMPLING DATA FOR PONDS/IMPOUNDMENTS AND
LANDFILLS**

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Plant ID: Insert Plant ID
Plant Name: Insert Plant Name

PART G. LEACHATE SAMPLING DATA FOR PONDS/IMPOUNDMENTS AND LANDFILLS

INSTRUCTIONS

Complete Part G of the questionnaire for your plant. As you are completing the electronic form, note the following: When you enter your plant name and plant ID on the Part G TOC tab, all name and ID fields throughout Part G will automatically populate. Refer to the overall questionnaire instructions, the glossary, and the acronym list for assistance with completing Part G.

Please provide all free response answers in the highlighted yellow areas. Throughout Part G, you may need to make copies of certain sections/questions. Instructions are provided throughout Part G regarding making copies. Note that pond/impoundment unit and landfill names must be populated on the copied tab or section, located in the upper right corner under "Plant ID" and "Plant Name", in order to correlate the requested information with the pond/impoundment or landfill.

Use the Part G Comments tab to do the following: provide additional information as requested in certain questions within Part G; indicate atypical data (e.g., if the analytical data provided from the sample collection is not representative of normal operations); and note methods used to make best engineering estimates in the event that exact data are not available.

Sampling data and the completed Part G of the questionnaire shall be submitted to EPA no later than 120 calendar days after receiving the questionnaire.

A company or plant may be exempt from the leachate sample collection (Question G3-1). Please refer to Question G1-1 and the "Applicability" section located in the "Part G Section 3" tab to determine if you are exempt and how to submit a written explanation.

Plant ID: Insert Plant IDPlant Name: Insert Plant Name**Part: G****Section Title: 1. Leachate Collection**

Instructions: Part G requests *leachate* sampling data for *pond/impoundment* units and *landfills* used for the storage, treatment, and/or disposal of *residues* or by-products (or *sludges* or water streams containing the residues or by-products) from the combustion of coal or petroleum coke, including, but not limited to, *fly ash*, *bottom ash*, boiler slag, or flue gas desulfurization (FGD) system residues. This includes liquid-borne material and solid material.

CBI? Yes

G1-1. Is *leachate* currently collected from any *pond/impoundment* and/or *landfill*, including those located on non-adjoining property, that contains residues or by-products from the combustion of coal or petroleum coke? Please see the glossary for a complete definition of *leachate*, which includes the terms seepage, leak, and leakage.

- Yes [\(Skip to Section 2\)](#)
- No (Skip to next Questionnaire Part)

Plant ID: Insert Plant ID

Plant Name: Insert Plant Name

Pond/Impoundment Unit or Landfill ID: Insert ID

Part: G

Section Title: 2. Leachate Generated from Ponds/Impoundments and Landfills

Instructions: Make copies of Section 2 (Questions G2-1 through G2-4) for each *pond/impoundment* unit and *landfill*, including those located on non-adjointing property, used for the storage, treatment, and/or disposal of *residues* or *by-products* (or *sludges* or water streams containing the residues or by-products) from the combustion of coal or petroleum coke, including, but not limited to, *fly ash*, *bottom ash*, boiler slag, or flue gas desulfurization (FGD) system residues. This includes liquid-borne material and solid material. Enter the pond/impoundment unit or landfill ID in the space provided above (use pond/impoundment unit and landfill IDs assigned in Table A-4 and Table A-6). Please provide all free response answers in the highlighted yellow areas.

Make a copy of Section 2 for each pond/impoundment unit and landfill, including those located on non-adjointing property, using the "Copy Section 2" button below.

NOTE: "Treatment" refers to the removal of specific pollutants or process wastewater constituents other than suspended solids. Refer to Figure G-1 below to help determine the leachate sample collection requirements for this pond/impoundment or landfill.

Copy Section 2

CBI?

Yes

G2-1. Is *leachate* currently collected from this pond/impoundment unit or landfill (excluding leachate returned to the pond/impoundment from which it originated)?

Yes (Continue)

No ([Skip to Section 5](#))

CBI?

Yes

G2-2. Is all collected leachate transported off site for treatment and/or disposal?

Yes ([Skip to Section 3. Provide ONLY untreated monitoring data as described in Question G3-1.](#))

No (Continue)

CBI?

Yes

G2-3. Is the collected leachate from this pond/impoundment unit or landfill that is not transferred off site currently treated?

Yes (Continue)

No ([Skip to Section 3. Provide ONLY untreated monitoring data as described in Question G3-1.](#))

CBI?

Yes

G2-4. Is the leachate combined with other waste streams prior to treatment?

Yes, combined with ONLY runoff or other stormwater (Provide treated and untreated monitoring data as described in Question G3-1)

Yes, combined with process wastewater other than runoff/stormwater (Provide ONLY untreated monitoring data as described in Question G3-1)

No (Provide treated and untreated monitoring data as described in Question G3-1)

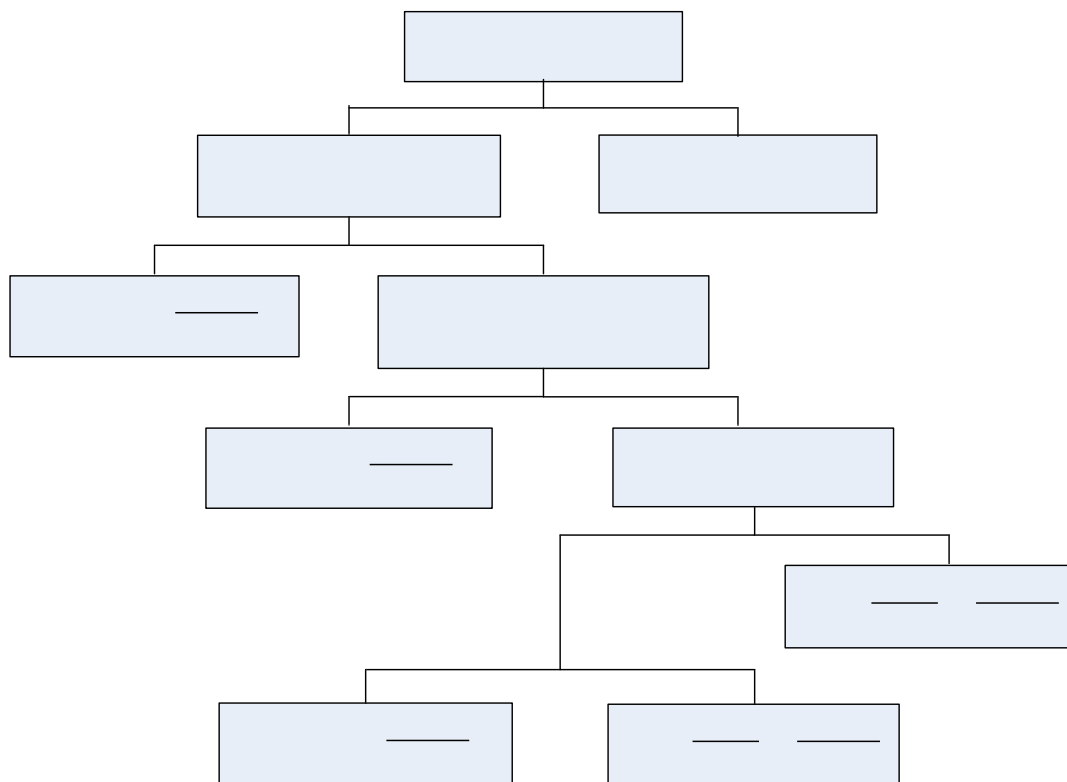


Figure G-1. Leachate Collection Decision Tree

Plant ID: Insert Plant ID
 Plant Name: Insert Plant Name

Part: G**Section Title: 3. Leachate Sample Collection Instructions****G3-1. OVERVIEW OF THE SAMPLE COLLECTION**

Collect process wastewater samples of *untreated and/or treated leachate* streams generated from *pond(s)/impoundment(s)* and *landfill(s)* used for the storage, treatment, or disposal of *residues* or by-products (or *sludges* or water streams containing the residues or by-products) from the combustion of coal or petroleum coke, including, but not limited to, *fly ash, bottom ash*, boiler slag, or flue gas desulfurization (FGD) system residues (this includes liquid-borne material and solid material).

Sampling data and the completed Part G of the questionnaire shall be submitted to EPA no later than 120 calendar days after receiving the questionnaire.

The samples should be collected as detailed in these instructions. In general, samples should be collected as grab samples (i.e., composite samples are not required). The plant should collect samples from each leachate collection point for each pond/impoundment and landfill. If the plant determines that a sample from one or more collection points are representative of an individual pond/impoundment or landfill, then the plant may simply collect the representative sample(s). The plant should collect samples from each sampling location once per week for four consecutive weeks, or as soon thereafter as sufficient leachate is available for collection.

The following analytes and analytical methods must be used for the sample analysis:

- Metals (total recoverable; antimony, arsenic, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc) EPA Method 200.8
- Metals (total recoverable: aluminum, barium, boron, calcium, iron, magnesium, sodium, tin, and titanium) EPA Method 200.7 or 200.8
- Mercury EPA Method 1631E
- Chlorides 40 CFR Part 136-approved
- Sulfates 40 CFR Part 136-approved
- Total dissolved solids (TDS) 40 CFR Part 136-approved
- Total suspended solids (TSS) 40 CFR Part 136-approved
- pH 40 CFR Part 136-approved

Each company or plant is responsible for identifying and contracting an analytical laboratory to perform the analyses.

APPLICABILITY

A plant may be exempt from the leachate sample collection (and skip to Question G3-2) if one of these two circumstances is true:

1. The plant can provide previously collected leachate characterization data if it fulfills the following data requirements:

- Must have data from leachate generated from each pond/impoundment and landfill where leachate is collected;
- Must have at least four samples of untreated and/or treated leachate, where each sample is collected at least five days apart; and
- Must have tested for every analyte listed above using the specified analytical methods.

2. The plant personnel are unable to collect the samples safely.

If you believe you are exempt, you must submit a written explanation justifying one or both of these two circumstances within two weeks after receiving the questionnaire by e-mail (preferred) or mailed to:

Jezebele Alicea
US EPA
Engineering and Analysis Division
Mail Code: 4303T
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460
alicea.jezebele@epa.gov

EPA will then determine if the plant is exempt from the leachate sample collection requirement. If the plant can provide previously collected leachate characterization data, then the plant should skip Section 4 (Questions G4-1 and G4-2) and continue to Section 5 (Question G5-1). Also, the plant must provide the leachate sampling data in Table G-4 found in the "Part G Sampling Results" tab. If the plant cannot collect the samples safely, then the plant should complete Question G4-1, then continue to Section 5 (Question G5-1).

SAMPLE LOCATION

Collect untreated and/or treated leachate samples from each pond/impoundment unit and landfill for which you responded "yes" in Question G2-1.

The untreated leachate samples must be collected directly from the *leachate collection system* or holding tank prior to any form of treatment. The treated leachate samples must be collected from the effluent from a leachate treatment system that is designed for the purpose of removing pollutants or process wastewater constituents, other than suspended solids, prior to *discharge* or commingling with other process wastewaters.

If the pond/impoundment unit and/or landfill has multiple collection points, the untreated sample may be collected from a common header area, if applicable. If there is not a common header area for the pond/impoundment or landfill, the plant may select one of the collection points that is "representative" of the pond/impoundment or landfill from which to collect the sample. If warranted due to the characteristics of the pond/impoundment or landfill, the plant may need to collect samples from more than one collection point to obtain

characteristics of the pond/impoundment or landfill, the plant may need to collect samples from more than one collection point to obtain representative samples. If the plant collects the samples from one "representative" collection point, describe how the company or plant determined the collection point is "representative" of all of the collection points in the "Part G Comments" tab located at the end of Part G.

SAMPLE FREQUENCY

Collect one sample of untreated leachate (and one sample of treated leachate if appropriately identified by responses in Question G2-4) once per week for four weeks, or as soon thereafter as sufficient leachate is available for collection, from each pond/impoundment unit and landfill. Please note that the samples must be collected at least five days after the previous sample was collected. If the pond/impoundment or landfill does not generate leachate weekly, please collect the samples as soon as the leachate is generated, but allow at least five days between samples.

Example1: If a plant collects only untreated leachate from a pond/impoundment unit, and the samples are obtained from a single leachate collection point, the plant is required to collect a total of four samples.

Example 2: If a plant collects both untreated and treated leachate from both a pond/impoundment unit and a landfill, and each separately has a single leachate collection point and they have separate treatment systems, the plant is required to collect a total of sixteen samples.

SAMPLE ANALYSES

After receiving the analytical results from the laboratory, enter the analytical data into the "Part G Sampling Results" tab. Report all results. Identify results that are less than the *method detection limit* (MDL), and results that are between the detection and *reporting limits*.

QUALITY ASSURANCE/QUALITY CONTROL

Follow the method-specified quality assurance/quality control analyses and attach a data review summary once the analyses are complete.

CBI?
 Yes

G3-2. Please attach an aerial photograph or drawing showing the entire waste management unit (i.e., pond/impoundment unit or landfill) that shows the boundaries and identifies all leachate collection points and the active and inactive areas of the pond/impoundment or landfill. Also, indicate the leachate sample location(s) used for this sample collection in the aerial photograph or drawing of the pond/impoundment unit or landfill.

I have attached the aerial photograph

I did not attach the aerial photograph. Explain why:



CBI?
 Yes

G3-3. Please identify the leachate sample locations used for this sample collection in the block diagram previously requested in Question F4-2.

Plant ID: Insert Plant ID
 Plant Name: Insert Plant Name

Part: G
Section Title: 4. Sample Collection Information

Instructions: Complete Table G-1 for each *pond/impoundment* unit and *landfill* that requires *leachate* sampling and is used for the storage, treatment, and/or disposal of *residues* or by-products (or *sludges* or water streams containing the residues or by-products) from the combustion of coal or petroleum coke, including, but not limited to, *fly ash*, *bottom ash*, boiler slag, or flue gas desulfurization (FGD) system residues. This includes liquid-borne material and solid material. Enter the pond/impoundment unit or landfill ID in the first column of Table G-1 (use pond/impoundment unit and landfill IDs assigned in Table A-4 and Table A-6). Please provide all free response answers in the highlighted yellow areas.

Collect daily rainfall data starting two weeks prior to collection of the first sample through the day of the last sample collected and enter the date and inches of rainfall in Table G-2.

G4-1. In Table G-1, provide a description of the sample collection location, the date the sample was collected, the flow rate of the leachate stream from the collection point (select the units of the flow rate), and identify if the leachate stream is treated or untreated. If the leachate sample is treated, provide the leachate treatment system ID previously identified in Table F-4.

Table G-1. Sample Collection Information

Pond/Impoundment Unit or Landfill ID (Use IDs from Tables A-4 and A-6)	Sample Collection Location	Sample Collection Location Description	Date of Sample Collection (mm/dd/yyyy)
CBI? <input type="checkbox"/> Yes	Leachate Treatment System ID: Untreated pond/impoundment	Common header area	1/25/2010
CBI? <input type="checkbox"/> Yes	Leachate Treatment System ID: Select		
CBI? <input type="checkbox"/> Yes	Leachate Treatment System ID: Select		
CBI? <input type="checkbox"/> Yes	Leachate Treatment System ID: Select		
CBI?	Leachate Treatment System ID:		

Plant ID: Insert Plant ID
 Plant Name: Insert Plant Name

Part: G

Section Title: 5. Waste Information

Instructions: Complete Table G-3 for each *pond/impoundment* unit and *landfill*, including those located on non-adjointing property, that is used for the storage, treatment, and/or disposal of *residues* or by-products (or *sludges* or water streams containing the residues or by-products) from the combustion of coal or petroleum coke, including, but not limited to, *fly ash*, *bottom ash*, boiler slag, or flue gas desulfurization (FGD) system residues. This includes liquid-borne material and solid material. Enter the pond/impoundment unit or landfill ID in the first column of Table G-3 (use pond/impoundment unit and landfill IDs assigned in Table A-4 and Table A-6). Please provide all free response answers in the highlighted yellow areas.

Make a copy of Section 5 to complete as many tables as needed to provide information for all pond/impoundment units and landfills, including those located on non-adjointing property, using the "Copy Section 5" button below.

Copy Section 5

G5-1. In Table G-3, indicate all process wastes, residues or by-products that are stored, treated, and/or disposed of in each pond/impoundment unit and/or landfill [Check all that apply]. If the landfill is partially capped, complete two rows, one for the amount of waste under the capped portion of the landfill and one for the amount of waste under the uncapped portion of the landfill. Please provide any additional wastes not listed by selecting "Other" and specifying the process waste, residue, or by-product in the highlighted yellow space provided. Complete as many rows of the table as needed to represent all pond/impoundment units and landfills at the plant. If more rows are needed, make additional copies of Table G-3 and complete as many tables as needed to provide information for all pond/impoundment units and landfills identified in Table A-4 and A-6.

Table G-3. Waste Information

CBI? <input type="checkbox"/> Yes	Pond/Impoundment Unit or Landfill ID (Use IDs from Tables A-4 and A-6)	Capped or Uncapped?	Type and Amount of Waste					
			Fly ash	tons	FGD Calcium Sulfate (Gypsum)	tons	Other:	tons
<input type="checkbox"/> Yes		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Fly ash	tons	<input type="checkbox"/> FGD Calcium Sulfate (Gypsum)	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Bottom ash	tons	<input type="checkbox"/> FGD Calcium Sulfate - Not Pozzolonic	tons	<input type="checkbox"/> Other:	tons
<input type="checkbox"/> Yes		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Bioler slag	tons	<input type="checkbox"/> FGD Pozzolonic Material	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Fly ash	tons	<input type="checkbox"/> FGD Calcium Sulfate (Gypsum)	tons	<input type="checkbox"/> Other:	tons
<input type="checkbox"/> Yes		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Bottom ash	tons	<input type="checkbox"/> FGD Calcium Sulfate - Not Pozzolonic	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Bioler slag	tons	<input type="checkbox"/> FGD Pozzolonic Material	tons	<input type="checkbox"/> Other:	tons
<input type="checkbox"/> Yes		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Fly ash	tons	<input type="checkbox"/> FGD Calcium Sulfate (Gypsum)	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Bottom ash	tons	<input type="checkbox"/> FGD Calcium Sulfate - Not Pozzolonic	tons	<input type="checkbox"/> Other:	tons
<input type="checkbox"/> Yes		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Bioler slag	tons	<input type="checkbox"/> FGD Pozzolonic Material	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Fly ash	tons	<input type="checkbox"/> FGD Calcium Sulfate (Gypsum)	tons	<input type="checkbox"/> Other:	tons
<input type="checkbox"/> Yes		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Bottom ash	tons	<input type="checkbox"/> FGD Calcium Sulfate - Not Pozzolonic	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Bioler slag	tons	<input type="checkbox"/> FGD Pozzolonic Material	tons	<input type="checkbox"/> Other:	tons

Plant ID:
 Plant Name:
 Pond/Impoundment Unit or Landfill ID:
 Sample Collection Location:

Part: G
Section Title: Laboratory Analytical Data Form

Instructions: Complete Table G-4 for each untreated and treated sample collection locations. Enter the pond/impoundment unit or landfill ID (use pond/impoundment unit and landfill IDs assigned in Table A-4 and Table A-6) and the sample collection location (identified previously in Table G-1) in the spaces provided above. Also, identify the name of the analytical laboratory that conducted the analyses and provide the sample collection location description previously identified in Table G-1. Report all results. Identify results that are less than the *method detection limit* (MDL), and results that are between the detection and *reporting limits*. Please provide all free response answers in the highlighted yellow areas.

Make a copy of Sampling Results Table for the each pond/impoundment unit and landfill chosen for the leachate sample collection using the "Copy Sampling Results Table" button below.

Name of analytical laboratory:

Data review summary attached.

Copy Sampling Results Table

Sample collection location description:

Table G-4. Leachate Sampling Analytical Data Form

CBI?
 Yes

Name of Analyte	CAS Number	Concentration (µg/L)	Analytical Method Used	Method Detection Limit (MDL) (µg/L)	Reporting Limit (µg/L)	Qualifiers for the Measurement
<i>Example - Arsenic</i>	<i>7440-38-2</i>	<i>350</i>	Select Other: <input type="text"/>	2	10	<i>Detected in laboratory blank at less than 5 times the sample result</i>
Aluminum	7429-90-5	<input style="background-color: yellow;" type="text"/>	Select Other: <input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>
Antimony	7440-36-0	<input style="background-color: yellow;" type="text"/>	Select Other: <input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>
Arsenic	7440-38-2	<input style="background-color: yellow;" type="text"/>	Select Other: <input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>
Barium	7440-39-3	<input style="background-color: yellow;" type="text"/>	Select Other: <input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>
Beryllium	7440-41-7	<input style="background-color: yellow;" type="text"/>	Select Other: <input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>
Boron	7440-42-8	<input style="background-color: yellow;" type="text"/>	Select Other: <input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>
Cadmium	7440-43-9	<input style="background-color: yellow;" type="text"/>	Select Other: <input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>	<input style="background-color: yellow;" type="text"/>

Calcium	7440-70-2		Select			
			Other:			
Chromium	7440-47-3		Select			
			Other:			
Cobalt	7440-48-4		Select			
			Other:			
Copper	7440-50-8		Select			
			Other:			
Iron	7439-89-6		Select			
			Other:			
Lead	7439-92-1		Select			
			Other:			
Magnesium	7439-95-4		Select			
			Other:			
Manganese	7439-95-4		Select			
			Other:			
Molybdenum	7439-98-7		Select			
			Other:			
Nickel	7440-02-0		Select			
			Other:			
Selenium	7782-49-2		Select			
			Other:			
Silver	7440-22-4		Select			
			Other:			
Sodium	7440-23-5		Select			
			Other:			
Sulfate	No CAS		Select			
			Other:			
Thallium	7440-28-0		Select			
			Other:			
Tin	7440-31-5		Select			
			Other:			
Titanium	7440-32-6		Select			
			Other:			
Vanadium	7440-62-2		Select			
			Other:			
Zinc	7440-66-6		Select			
			Other:			
Mercury	7439-97-6		Select			
			Other:			
Chlorides	No CAS		Select			
			Other:			
Total dissolved solids (TDS)	No CAS		Select			
			Other:			
Total suspended solids (TSS)	No CAS		Select			
			Other:			
pH	No CAS		Select			
			Other:			

CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	
CBI? <input type="checkbox"/> Yes	

Part G Drop Downs

Analytical Method
Select
40 CRF Part 136-approved
EPA Method 200.7
EPA Method 200.8
EPA Method 1631E
Other

Sample Collection Location
Select
Treated pond/impoundment
Untreated pond/impoundment
Treated Landfill
Untreated Landfill

Plant ID: Insert Plant ID

Plant Name: Insert Plant Name

Pond/Impoundment Unit or Landfill ID: Insert ID

Part: G

Section Title: 2. Leachate Generated from Ponds/Impoundments and Landfills

Instructions: Make copies of Section 2 (Questions G2-1 through G2-4) for each *pond/impoundment* unit and *landfill*, including those located on non-adjointing property, used for the storage, treatment, and/or disposal of *residues* or *by-products* (or *sludges* or water streams containing the residues or by-products) from the combustion of coal or petroleum coke, including, but not limited to, *fly ash*, *bottom ash*, boiler slag, or flue gas desulfurization (FGD) system residues. This includes liquid-borne material and solid material. Enter the pond/impoundment unit or landfill ID in the space provided above (use pond/impoundment unit and landfill IDs assigned in Table A-4 and Table A-6). Please provide all free response answers in the highlighted yellow areas.

Make a copy of Section 2 for each pond/impoundment unit and landfill, including those located on non-adjointing property, using the "Copy Section 2" button below.

NOTE: "Treatment" refers to the removal of specific pollutants or process wastewater constituents other than suspended solids. Refer to Figure G-1 below to help determine the leachate sample collection requirements for this pond/impoundment or landfill.

CBI?
 Yes **G2-1.** Is *leachate* currently collected from this pond/impoundment unit or landfill (excluding leachate returned to the pond/impoundment from which it originated)?

- Yes (Continue)
- No ([Skip to Section 5](#))

CBI?
 Yes **G2-2.** Is all collected leachate transported off site for treatment and/or disposal?

- Yes ([Skip to Section 3. Provide ONLY untreated monitoring data as described in Question G3-1.](#))
- No (Continue)

CBI?
 Yes **G2-3.** Is the collected leachate from this pond/impoundment unit or landfill that is not transferred off site currently treated?

- Yes (Continue)
- No ([Skip to Section 3. Provide ONLY untreated monitoring data as described in Question G3-1.](#))

CBI?
 Yes **G2-4.** Is the leachate combined with other waste streams prior to treatment?

- Yes, combined with ONLY runoff or other stormwater (Provide treated and untreated monitoring data as described in Question G3-1)
- Yes, combined with process wastewater other than runoff/stormwater (Provide ONLY untreated monitoring data as described in Question G3-1)
- No (Provide treated and untreated monitoring data as described in Question G3-1)

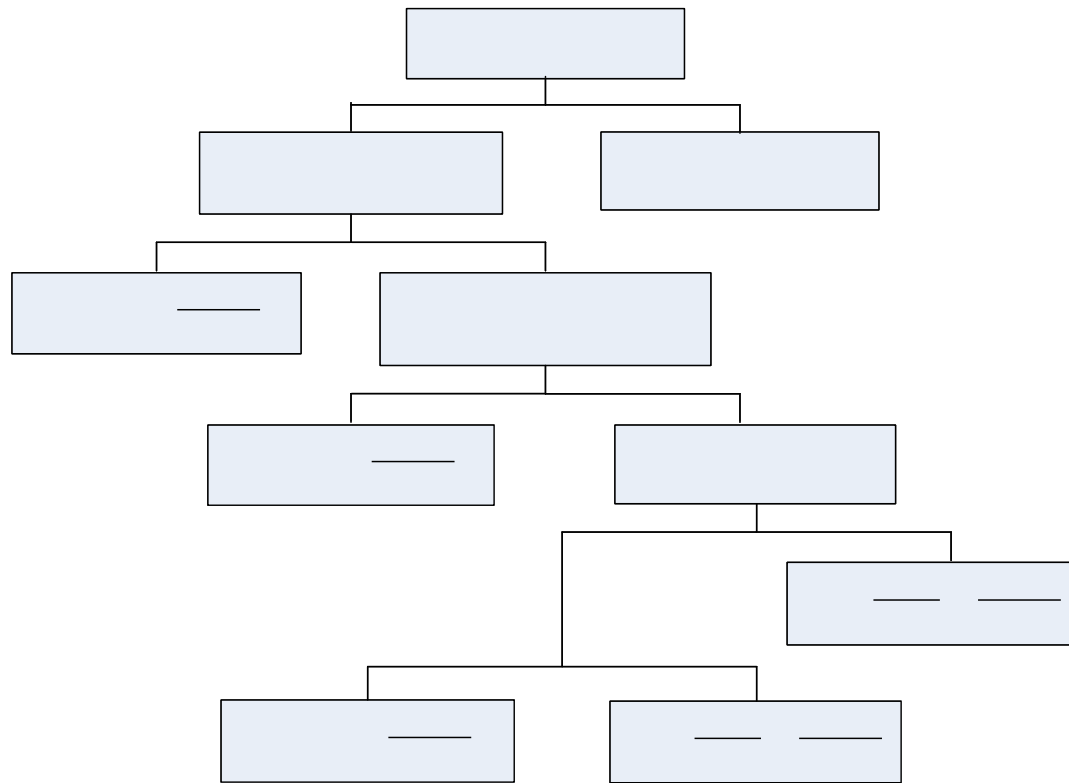


Figure G-1. Leachate Collection Decision Tree

Plant ID: Insert Plant ID
 Plant Name: Insert Plant Name

Part: G

Section Title: 5. Waste Information

Instructions: Complete Table G-3 for each *pond/impoundment* unit and *landfill*, including those located on non-adjointing property, that is used for the storage, treatment, and/or disposal of *residues* or by-products (or *sludges* or water streams containing the residues or by-products) from the combustion of coal or petroleum coke, including, but not limited to, *fly ash*, *bottom ash*, boiler slag, or flue gas desulfurization (FGD) system residues. This includes liquid-borne material and solid material. Enter the pond/impoundment unit or landfill ID in the first column of Table G-3 (use pond/impoundment unit and landfill IDs assigned in Table A-4 and Table A-6). Please provide all free response answers in the highlighted yellow areas.

Make a copy of Section 5 to complete as many tables as needed to provide information for all pond/impoundment units and landfills, including those located on non-adjointing property, using the "Copy Section 5" button below.

G5-1. In Table G-3, indicate all process wastes, residues or by-products that are stored, treated, and/or disposed of in each pond/impoundment unit and/or landfill [Check all that apply]. If the landfill is partially capped, complete two rows, one for the amount of waste under the capped portion of the landfill and one for the amount of waste under the uncapped portion of the landfill. Please provide any additional wastes not listed by selecting "Other" and specifying the process waste, residue, or by-product in the highlighted yellow space provided. Complete as many rows of the table as needed to represent all pond/impoundment units and landfills at the plant. If more rows are needed, make additional copies of Table G-3 and complete as many tables as needed to provide information for all pond/impoundment units and landfills identified in Table A-4 and A-6.

Table G-3. Waste Information

CBI? <input type="checkbox"/> Yes	Pond/Impoundment Unit or Landfill ID (Use IDs from Tables A-4 and A-6)	Capped or Uncapped?	Type and Amount of Waste					
			Fly ash	tons	FGD Calcium Sulfate (Gypsum)	tons	Other:	tons
		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Fly ash	tons	<input type="checkbox"/> FGD Calcium Sulfate (Gypsum)	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Bottom ash	tons	<input checked="" type="checkbox"/> FGD Calcium Sulfate - Not Pozzolonic	tons	<input type="checkbox"/> Other:	tons
			<input type="checkbox"/> Bioler slag	tons	<input type="checkbox"/> FGD Pozzolonic Material	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Fly ash	tons	<input type="checkbox"/> FGD Calcium Sulfate (Gypsum)	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Bottom ash	tons	<input type="checkbox"/> FGD Calcium Sulfate - Not Pozzolonic	tons	<input type="checkbox"/> Other:	tons
			<input type="checkbox"/> Bioler slag	tons	<input type="checkbox"/> FGD Pozzolonic Material	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Fly ash	tons	<input type="checkbox"/> FGD Calcium Sulfate (Gypsum)	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Bottom ash	tons	<input type="checkbox"/> FGD Calcium Sulfate - Not Pozzolonic	tons	<input type="checkbox"/> Other:	tons
			<input type="checkbox"/> Bioler slag	tons	<input type="checkbox"/> FGD Pozzolonic Material	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Closed/Capped	<input type="checkbox"/> Fly ash	tons	<input type="checkbox"/> FGD Calcium Sulfate (Gypsum)	tons	<input type="checkbox"/> Other:	tons
		<input type="checkbox"/> Active/Uncapped	<input type="checkbox"/> Bottom ash	tons	<input type="checkbox"/> FGD Calcium Sulfate - Not Pozzolonic	tons	<input type="checkbox"/> Other:	tons
			<input type="checkbox"/> Bioler slag	tons	<input type="checkbox"/> FGD Pozzolonic Material	tons	<input type="checkbox"/> Other:	tons

Plant ID: Insert Plant ID
 Plant Name: Insert Plant Name
 Pond/Impoundment Unit or Landfill ID: Insert ID
 Sample Collection Location: Select

Part: G
Section Title: Laboratory Analytical Data Form

Instructions: Complete Table G-4 for each untreated and treated sample collection locations. Enter the pond/impoundment unit or landfill ID (use pond/impoundment unit and landfill IDs assigned in Table A-4 and Table A-6) and the sample collection location (identified previously in Table G-1) in the spaces provided above. Also, identify the name of the analytical laboratory that conducted the analyses and provide the sample collection location description previously identified in Table G-1. Report all results. Identify results that are less than the *method detection limit* (MDL), and results that are between the detection and *reporting limits*. Please provide all free response answers in the highlighted yellow areas.

Make a copy of Sampling Results Table for the each pond/impoundment unit and landfill chosen for the leachate sample collection using the "Copy Sampling Results Table" button below.

Name of analytical laboratory:

Data review summary attached.

Sample collection location description:

Table G-4. Leachate Sampling Analytical Data Form

CBI?
 Yes

Name of Analyte	CAS Number	Concentration (µg/L)	Analytical Method Used	Method Detection Limit (MDL) (µg/L)	Reporting Limit (µg/L)	Qualifiers for the Measurement
<i>Example - Arsenic</i>	<i>7440-38-2</i>	<i>350</i>	Select Other: 	2	10	<i>Detected in laboratory blank at less than 5 times the sample result</i>
Aluminum	7429-90-5		Select Other: 			
Antimony	7440-36-0		Select Other: 			
Arsenic	7440-38-2		Select Other: 			
Barium	7440-39-3		Select Other: 			
Beryllium	7440-41-7		Select Other: 			
Boron	7440-42-8		Select Other: 			
Cadmium	7440-43-9		Select Other: 			

Calcium	7440-70-2		Select			
			Other:			
Chromium	7440-47-3		Select			
			Other:			
Cobalt	7440-48-4		Select			
			Other:			
Copper	7440-50-8		Select			
			Other:			
Iron	7439-89-6		Select			
			Other:			
Lead	7439-92-1		Select			
			Other:			
Magnesium	7439-95-4		Select			
			Other:			
Manganese	7439-95-4		Select			
			Other:			
Molybdenum	7439-98-7		Select			
			Other:			
Nickel	7440-02-0		Select			
			Other:			
Selenium	7782-49-2		Select			
			Other:			
Silver	7440-22-4		Select			
			Other:			
Sodium	7440-23-5		Select			
			Other:			
Sulfate	No CAS		Select			
			Other:			
Thallium	7440-28-0		Select			
			Other:			
Tin	7440-31-5		Select			
			Other:			
Titanium	7440-32-6		Select			
			Other:			
Vanadium	7440-62-2		Select			
			Other:			
Zinc	7440-66-6		Select			
			Other:			
Mercury	7439-97-6		Select			
			Other:			
Chlorides	No CAS		Select			
			Other:			
Total dissolved solids (TDS)	No CAS		Select			
			Other:			
Total suspended solids (TSS)	No CAS		Select			
			Other:			
pH	No CAS		Select			
			Other:			