

**C-746-S&T and C-746-U Solid Waste Landfill
Fourth Quarter Calendar Year 2017
Waste Quantity and Operating Report
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky**



This document is approved for public release per review by:

David Hayden
FRNP Classification Support

1-10-18
Date

FPDP-RPT-0085/V4

**C-746-S&T and C-746-U Solid Waste Landfill
Fourth Quarter Calendar Year 2017
Waste Quantity and Operating Report
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky**

Date Issued—January 2018

U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

Prepared by
FOUR RIVERS NUCLEAR PARTNERSHIP, LLC,
managing the
Deactivation and Remediation Project at the
Paducah Gaseous Diffusion Plant
under Contract DE-EM0004895

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REPORT SUMMARY

The information contained herein is submitted in accordance with the requirements of Solid Waste Permit Number SW07300045, SW07300014, SW07300015 and 401 KAR 47:190 § 8(1)(a) through (c) and (e), for the fourth quarter of calendar year 2017 for the Paducah Gaseous Diffusion Plant, McCracken County, Kentucky.

In the fourth quarter of calendar year 2017, a total of 166.83 tons of industrial waste was disposed of in the C-746-U Contained Landfill. No special waste or spill residue-containing materials were placed in the landfill this quarter. No asbestos-containing materials were a part of the 166.83 total tons of waste dispositioned.

The C-746-S Residential Landfill has been inactive since July 1995, and the C-746-T Inert Landfill has been inactive since June 1992.

Analytical results for surface water, groundwater, and methane monitoring are submitted in separate quarterly Compliance Monitoring Reports for the C-746-U Landfill and C-746-S&T Landfills [401 KAR 47:190 § 8(1)(d)].

Leachate Collection and Disposition

On January 4, 2017, the Landfill Manager notified Kentucky Division of Waste Management that leachate would be transported to the C-615 Wastewater Treatment Facility until further notice. During the fourth quarter of calendar year 2017, a total of 145,600 gal of leachate from the C-746-U Landfill was transported to the C-615 Wastewater Treatment Facility for treatment and discharge. A total of 23,900 gal of held leachate that was generated in the third quarter was transported to the C-615 Wastewater Treatment Facility for treatment and discharge during the fourth quarter. There was no leachate from the C-746-S Landfill transported this quarter.

A leachate sample was obtained on December 20, 2017, during this quarter from the leachate transported to the C-615 Wastewater Treatment Facility. Analytical results were not available for inclusion in this report by the regulatory deadline; the results will be provided in the next quarterly report. Analytical results from the third quarter of calendar year 2017 that were not available during the previous reporting period are included in this report.

The tank volume reported on the leachate log is the volume at the time of measurement. Calculation of the next day tank volume by subtraction of disposal volume may not reflect the measured tank volume because additional leachate had entered the system.

Construction Activities and Cover Maintenance

There were no construction activities at the C-746-U Landfill [401 KAR 47:190 § 8(1)(a)]. The landfill was inspected for subsidence in accordance with the cover requirements [401 KAR 48:080 § 9(6)(f)]. No repairs were necessary during the quarter.

There were no construction activities for either the C-746-S or C-746-T Landfills. The landfills were inspected for subsidence in accordance with the cover requirements [401 KAR 48:080 § 9(6)(f)]. No repairs were necessary during the quarter.

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FACILITY INFORMATION SHEET

Sampling Date: December 20, 2017

County: McCracken Permit No.: SW07300014; SW07300015;
SW07300045

Facility Name: U.S. Department of Energy—Paducah Gaseous Diffusion Plant
(as officially shown on DWM permit face)

Site Address: 5501 Hobbs Road Kevil, Kentucky 42053
Street City/State Zip

Phone No.: (270) 441-6800 Latitude: N 37° 07' 45" Longitude: W 88° 47' 55"

OWNER INFORMATION

Facility Owner: U.S. DOE—Robert E. Edwards III, Manager Phone No.: (859) 227-5020

Contact Person: Curt B. Walker Phone No.: (270) 441-5226

Contact Person Title: Director, Environmental Services Project, Four Rivers Nuclear Partnership, LLC

Mailing Address: 5511 Hobbs Road Kevil, Kentucky 42053
Street City/State Zip

SAMPLING PERSONNEL (if other than landfill or laboratory)

Company: GEO Consultants, LLC

Contact Person: Sam Martin Phone No.: (270) 441-6755

Mailing Address: 325 Kentucky Avenue Kevil, Kentucky 42053
Street City/State Zip

LABORATORY RECORD #1

Laboratory: GEL Laboratories, LLC Lab ID No.: KY90129

Contact Person: Valerie Davis Phone No.: (843) 769-7391

Mailing Address: P.O. Box 30712 Charleston, South Carolina 29417
Street City/State Zip

LABORATORY RECORD #2

Laboratory: N/A Lab ID No.: N/A

Contact Person: N/A Phone No.: N/A

Mailing Address: N/A
Street City/State Zip

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**C-746-U LANDFILL
QUARTERLY WASTE QUANTITY REPORT**

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Department for Environmental Protection/Division of Waste Management/Solid Waste Branch
 Quarterly Waste Quantity Report–DEP 7046Q (Revised 2-05)

Page 1 of 1

WASTE ACTIVITY: CONTAINED LANDFILL

Facility Name: U.S. Department of Energy- Paducah Gaseous Diffusion Permit Number 07300045
 County where landfill is located: McCracken Agency Interest Number: 3059
 Report for the Months of: October, November, December For the Year of: 2017

Waste Source (County and State)	Type of Waste			**Waste Used as Alternate Daily Cover as Approved (Tons Only)
	*Municipal Solid Waste (Tons Only)	*Industrial Waste (Tons Only)	*Special Waste (Tons Only)	
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (October)	0.00	155.89	0.00	0.00
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (November)	0.00	0.00	0.00	0.00
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (December)	0.00	10.94	0.00	0.00
Total for this page	0.00	166.83	0.00	0.00
Grand Total of all pages	0.00	166.83	0.00	0.00

Grand Total of Municipal, Industrial, and Special from all pages 166.83

*Does not include waste used as Alternate Daily Cover.

**Indicate the amount used as Alternate Daily Cover. Please note this requires prior approval by the Cabinet.

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

Signature: _____ Phone Number (270) 441-5113 _____

Name—Please Print: Myrna E. Redfield _____ Date: _____

Signature: _____ Phone Number (270) 441-6800 _____

Name—Please Print: Jennifer Woodard _____ Date: _____

This Certification clause shall be signed by the responsible person(s) described in 401 KAR 47:160, Section 6(1), and/or (2) and is required by 401 KAR 47:160, Section 6(4).

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**C-746-U LANDFILL
COVER LOG**

OCTOBER, NOVEMBER, DECEMBER 2017

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COVER LOG

DEPARTMENT OF ENERGY
 COUNTY: McCracken

PERMIT NUMBER: 073-00045
 Month & Year: October 2017

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1						
2	D-4	YES	NO	NO	NO	YES
3	D-4	YES	NO	NO	NO	YES
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16	D-4	YES	NO	NO	NO	YES
17	D-4	YES	NO	NO	NO	YES
18	D-4	YES	YES	NO	NO	YES
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

COVER LOG

DEPARTMENT OF ENERGY
 COUNTY: McCracken

PERMIT NUMBER: 073-00045
 Month & Year: November 2017

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1						
2						
3						
4						
5						
6						
7						
8						
9	There were no waste disposal or cover activities during the month of November 2017					
10						
11						
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25						
26						
27						
28						
29						
30						
31						

COVER LOG

DEPARTMENT OF ENERGY
 COUNTY: McCracken

PERMIT NUMBER: 073-00045
 Month & Year: December 2017

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1						
2						
3						
4						
5						
6						
7	D-4	YES	YES	NO	NO	YES
8						
9						
10						
11						
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LEACHATE LOG

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Month OctoberYear 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
10-02-17	1,2,3,4,5	F-001		17500		
10-02-17	1,2,3,4,5	F-002		19500		
10-02-17	1,2,3,4,5	F-007		1500		
10-02-17	1,2,3,4,5	F-008		1500		
10-02-17	1,2,3,4,5	F-009		500		
10-03-17	1,2,3,4,5	F-001		17500		
10-03-17	1,2,3,4,5	F-002		19900		
10-03-17	1,2,3,4,5	F-007		1500		
10-03-17	1,2,3,4,5	F-008		1500		
10-03-17	1,2,3,4,5	F-009		500		
10-04-17	1,2,3,4,5	F-001		17500		
10-04-17	1,2,3,4,5	F-002		20500		
10-04-17	1,2,3,4,5	F-007		1500		
10-04-17	1,2,3,4,5	F-008		1500		
10-04-17	1,2,3,4,5	F-009		500		
10-05-17	1,2,3,4,5	F-001		17500		
10-05-17	1,2,3,4,5	F-002		21000		
10-05-17	1,2,3,4,5	F-007		1500		
10-05-17	1,2,3,4,5	F-008		1500		
10-05-17	1,2,3,4,5	F-009		500		
10-09-17	1,2,3,4,5	F-001		17500		
10-09-17	1,2,3,4,5	F-002		24400		
10-09-17	1,2,3,4,5	F-007		1500		
10-09-17	1,2,3,4,5	F-008		1500		
10-09-17	1,2,3,4,5	F-009		500		
10-10-17	1,2,3,4,5	F-001		17500		
10-10-17	1,2,3,4,5	F-002		24800		

Month October Year 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
10-10-17	1,2,3,4,5	F-007		1500		
10-10-17	1,2,3,4,5	F-008		1500		
10-10-17	1,2,3,4,5	F-009		500		
10-11-17	1,2,3,4,5	F-001		17500		
10-11-17	1,2,3,4,5	F-002		27900	9200	W
10-11-17	1,2,3,4,5	F-007		1500		
10-11-17	1,2,3,4,5	F-008		1500		
10-11-17	1,2,3,4,5	F-009		500		
10-12-17	1,2,3,4,5	F-001		19100		
10-12-17	1,2,3,4,5	F-002		18700	9600	W
10-12-17	1,2,3,4,5	F-007		1500		
10-12-17	1,2,3,4,5	F-008		1500		
10-12-17	1,2,3,4,5	F-009		500		
10-16-17	1,2,3,4,5	F-001		22400	5600	W
10-16-17	1,2,3,4,5	F-002		9400		
10-16-17	1,2,3,4,5	F-007		1500		
10-16-17	1,2,3,4,5	F-008		1500		
10-16-17	1,2,3,4,5	F-009		500		
10-17-17	1,2,3,4,5	F-001		16800	6400	W
10-17-17	1,2,3,4,5	F-002		10500		
10-17-17	1,2,3,4,5	F-007		1500		
10-17-17	1,2,3,4,5	F-008		1500		
10-17-17	1,2,3,4,5	F-009		500		
10-18-17	1,2,3,4,5	F-001		10400	6000	W
10-18-17	1,2,3,4,5	F-002		11600		
10-18-17	1,2,3,4,5	F-007		1500		
10-18-17	1,2,3,4,5	F-008		1500		

Month NovemberYear 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
11-01-17	1,2,3,4,5	F-001		3100		
11-01-17	1,2,3,4,5	F-002		21300		
11-01-17	1,2,3,4,5	F-007		1500		
11-01-17	1,2,3,4,5	F-008		1500		
11-01-17	1,2,3,4,5	F-009		500		
11-02-17	1,2,3,4,5	F-001		4000		
11-02-17	1,2,3,4,5	F-002		21300		
11-02-17	1,2,3,4,5	F-007		1500		
11-02-17	1,2,3,4,5	F-008		1500		
11-02-17	1,2,3,4,5	F-009		500		
11-06-17	1,2,3,4,5	F-001		19000		
11-06-17	1,2,3,4,5	F-002		21300	1500	W
11-06-17	1,2,3,4,5	F-007		1500		
11-06-17	1,2,3,4,5	F-008		1500		
11-06-17	1,2,3,4,5	F-009		500		
11-07-17	1,2,3,4,5	F-001		24700		
11-07-17	1,2,3,4,5	F-002		19800	4600	W
11-07-17	1,2,3,4,5	F-007		1500		
11-07-17	1,2,3,4,5	F-008		1500		
11-07-17	1,2,3,4,5	F-009		500		
11-08-17	1,2,3,4,5	F-001		29500	9200	W
11-08-17	1,2,3,4,5	F-002		16000		
11-08-17	1,2,3,4,5	F-007		1500		
11-08-17	1,2,3,4,5	F-008		150		
11-08-17	1,2,3,4,5	F-009		500		
11-09-17	1,2,3,4,5	F-001		20300	4800	W
11-09-17	1,2,3,4,5	F-002		19000		

Month November Year 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
11-09-17	1,2,3,4,5	F-007		1500		
11-09-17	1,2,3,4,5	F-008		1500		
11-09-17	1,2,3,4,5	F-009		500		
11-13-17	1,2,3,4,5	F-001		15500		
11-13-17	1,2,3,4,5	F-002		26900	3000	W
11-13-17	1,2,3,4,5	F-007		1500		
11-13-17	1,2,3,4,5	F-008		1500		
11-13-17	1,2,3,4,5	F-009		500		
11-14-17	1,2,3,4,5	F-001		17000		
11-14-17	1,2,3,4,5	F-002		23900	7400	W
11-14-17	1,2,3,4,5	F-007		1500		
11-14-17	1,2,3,4,5	F-008		1500		
11-14-17	1,2,3,4,5	F-009		500		
11-15-17	1,2,3,4,5	F-001		18000		
11-15-17	1,2,3,4,5	F-002		16500	7700	W
11-15-17	1,2,3,4,5	F-007		1500		
11-15-17	1,2,3,4,5	F-008		1500		
11-15-17	1,2,3,4,5	F-009		500		
11-16-17	1,2,3,4,5	F-001		19900		
11-16-17	1,2,3,4,5	F-002		8800	7600	W
11-16-17	1,2,3,4,5	F-007		1500		
11-16-17	1,2,3,4,5	F-008		1500		
11-16-17	1,2,3,4,5	F-009		500		
11-20-17	1,2,3,4,5	F-001		26600		
11-20-17	1,2,3,4,5	F-002		1200		
11-20-17	1,2,3,4,5	F-007		1500		
11-20-17	1,2,3,4,5	F-008		1500		

* R – Re-circulated to Working Phase
W – Transported to Wastewater Treatment Facility
L – Disposed at on-site Leachate Treatment Facility

Month November Year 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
11-20-17	1,2,3,4,5	F-009		500		
11-21-17	1,2,3,4,5	F-001		28000		
11-21-17	1,2,3,4,5	F-002		1200		
11-21-17	1,2,3,4,5	F-007		1500		
11-21-17	1,2,3,4,5	F-008		1500		
11-21-17	1,2,3,4,5	F-009		500		
11-27-17	1,2,3,4,5	F-001		28000	4300	W
11-27-17	1,2,3,4,5	F-002		9000		
11-27-17	1,2,3,4,5	F-007		1500		
11-27-17	1,2,3,4,5	F-008		1500		
11-27-17	1,2,3,4,5	F-009		500		
11-28-17	1,2,3,4,5	F-001		23700	7300	W
11-28-17	1,2,3,4,5	F-002		9700		
11-28-17	1,2,3,4,5	F-007		1500		
11-28-17	1,2,3,4,5	F-008		1500		
11-28-17	1,2,3,4,5	F-009		500		
11-29-17	1,2,3,4,5	F-001		16400	6200	W
11-29-17	1,2,3,4,5	F-002		10500		
11-29-17	1,2,3,4,5	F-007		1500		
11-29-17	1,2,3,4,5	F-008		1500		
11-29-17	1,2,3,4,5	F-009		500		
11-30-17	1,2,3,4,5	F-001		10200	6100	W
11-30-17	1,2,3,4,5	F-002		11100		
11-30-17	1,2,3,4,5	F-007		1500		
11-30-17	1,2,3,4,5	F-008		1500		
11-30-17	1,2,3,4,5	F-009		500		
			<i>Tommy Smith</i>	<i>11-30-17</i>		

Month December Year 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
12-04-17	1,2,3,4,5	F-001		4100	2000	W
12-04-17	1,2,3,4,5	F-002		14600		
12-04-17	1,2,3,4,5	F-007		1500		
12-04-17	1,2,3,4,5	F-008		1500		
12-04-17	1,2,3,4,5	F-009		500		
12-05-17	1,2,3,4,5	F-001		2100	1500	W
12-05-17	1,2,3,4,5	F-002		15500	500	W
12-05-17	1,2,3,4,5	F-007		1500		
12-05-17	1,2,3,4,5	F-008		1500		
12-05-17	1,2,3,4,5	F-009		500		
12-06-17	1,2,3,4,5	F-001		2200		
12-06-17	1,2,3,4,5	F-002		15000	1000	W
12-06-17	1,2,3,4,5	F-007		1500		
12-06-17	1,2,3,4,5	F-008		1500		
12-06-17	1,2,3,4,5	F-009		500		
12-07-17	1,2,3,4,5	F-001		3800		
12-07-17	1,2,3,4,5	F-002		14000	1000	W
12-07-17	1,2,3,4,5	F-007		1500		
12-07-17	1,2,3,4,5	F-008		1500		
12-07-17	1,2,3,4,5	F-009		500		
12-11-17	1,2,3,4,5	F-001		7600		
12-11-17	1,2,3,4,5	F-002		13000		
12-11-17	1,2,3,4,5	F-007		1500		
12-11-17	1,2,3,4,5	F-008		1500		
12-11-17	1,2,3,4,5	F-009		500		
12-12-17	1,2,3,4,5	F-001		8400		
12-12-17	1,2,3,4,5	F-002		13000	6700	W

Month DecemberYear 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
12-12-17	1,2,3,4,5	F-007		1500		
12-12-17	1,2,3,4,5	F-008		1500		
12-12-17	1,2,3,4,5	F-009		500		
12-13-17	1,2,3,4,5	F-001		9400		
12-13-17	1,2,3,4,5	F-002		6300	5800	W
12-13-17	1,2,3,4,5	F-007		1500		
12-13-17	1,2,3,4,5	F-008		1500		
12-13-17	1,2,3,4,5	F-009		500		
12-14-17	1,2,3,4,5	F-001		10200	6000	W
12-14-17	1,2,3,4,5	F-002		500		
12-14-17	1,2,3,4,5	F-007		1500		
12-14-17	1,2,3,4,5	F-008		1500		
12-14-17	1,2,3,4,5	F-009		500		
12-18-17	1,2,3,4,5	F-001		4200	3700	W
12-18-17	1,2,3,4,5	F-002		500		
12-18-17	1,2,3,4,5	F-007		1500		
12-18-17	1,2,3,4,5	F-008		1500		
12-18-17	1,2,3,4,5	F-009		3800		
12-19-17	1,2,3,4,5	F-001		500		
12-19-17	1,2,3,4,5	F-002		500		
12-19-17	1,2,3,4,5	F-007		1500		
12-19-17	1,2,3,4,5	F-008		1500		
12-19-17	1,2,3,4,5	F-009		4900	1500	W
12-20-17	1,2,3,4,5	F-001		500		
12-20-17	1,2,3,4,5	F-002		2100		
12-20-17	1,2,3,4,5	F-007		1500		
12-20-17	1,2,3,4,5	F-008		1500		
12-20-17	1,2,3,4,5	F-009		3400	2900	W

LEACHATE DATA

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Paducah OREIS Report for USL17-03

USL17-03-02

from: C-746-S

on 9/14/2017

Media: WW

SmpMethod: GR

Comments:

Cell #3 in 746-S landfill. Water sampled has an orange colored stain. Some suspended solids visible in sample containers. Depth of water in Cell #3 was approx 1 ft. When sampling the cyanide parameter, water reacted with preservative to turn a light green/gray color. CH 9-14-17. C-746-S Landfill Leachate

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
ANION										
Bromide	0.41	mg/L			0.2			SW846-9056	GEL	/X/
Chloride	34.3	mg/L			1			SW846-9056	GEL	/X/
Fluoride	0.361	mg/L			0.1			SW846-9056	GEL	/X/
Nitrate as Nitrogen	0.5	mg/L	U		0.5			SW846-9056	GEL	/X/
Sulfate	1.87	mg/L	W		0.4			SW846-9056	GEL	/X/
FS										
Conductivity	1123	umho/cm						FS	FS	//
Dissolved Oxygen	1.5	mg/L						FS	FS	//
pH	6.68	Std Unit						FS	FS	//
Redox	90	mV						FS	FS	//
Temperature	73	deg F						FS	FS	//
Turbidity	112	NTU						FS	FS	//
METAL										
Aluminum	0.05	mg/L	U		0.05			SW846-6020	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/
Arsenic	0.00995	mg/L			0.005			SW846-6020	GEL	/X/
Barium	1.09	mg/L			0.02			SW846-6020	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020	GEL	/X/
Boron	0.0501	mg/L			0.015			SW846-6020	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Calcium	103	mg/L			2			SW846-6020	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Cobalt	0.000426	mg/L	J		0.001			SW846-6020	GEL	/X/
Copper	0.000321	mg/L	J		0.001			SW846-6020	GEL	/X/
Iron	103	mg/L			1			SW846-6020	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020	GEL	/X/
Magnesium	22.6	mg/L			0.03			SW846-6020	GEL	/X/
Manganese	0.525	mg/L			0.005			SW846-6020	GEL	/X/
Mercury	0.0002	mg/L	UN		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.000676	mg/L	B		0.0005			SW846-6020	GEL	/X/
Nickel	0.000945	mg/L	J		0.002			SW846-6020	GEL	/X/
Phosphorous	0.0463	mg/L	J		0.05			EPA-365.4	GEL	/X/
Potassium	4.76	mg/L			0.3			SW846-6020	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Sodium	36.1	mg/L			0.25			SW846-6020	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Uranium	0.000355	mg/L			0.0002			SW846-6020	GEL	/X/
Vanadium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Zinc	0.00389	mg/L	J		0.01			SW846-6020	GEL	/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/
Arsenic, Dissolved	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Barium, Dissolved	0.606	mg/L			0.002			SW846-6020	GEL	/X/
Cadmium, Dissolved	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/

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Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Cobalt, Dissolved	0.000386	mg/L	J	0.001			SW846-6020	GEL	/X/
Copper, Dissolved	0.000575	mg/L	J	0.001			SW846-6020	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020	GEL	/X/
Manganese, Dissolved	0.519	mg/L		0.005			SW846-6020	GEL	/X/
Nickel, Dissolved	0.000768	mg/L	J	0.002			SW846-6020	GEL	/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Uranium, Dissolved	0.000315	mg/L		0.0002			SW846-6020	GEL	/X/
Vanadium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Zinc, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/

OTHOR

Oil and Grease	4.17	mg/L	U	4.17			EPA-1664A	GEL	/X/
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PCCB

PCB-1016	0.05	ug/L	U	0.05			SW846-8082	GEL	/X/
PCB-1221	0.05	ug/L	U	0.05			SW846-8082	GEL	/X/
PCB-1232	0.05	ug/L	U	0.05			SW846-8082	GEL	/X/
PCB-1242	0.05	ug/L	U	0.05			SW846-8082	GEL	/X/
PCB-1248	0.05	ug/L	U	0.05			SW846-8082	GEL	/X/
PCB-1254	0.05	ug/L	U	0.05			SW846-8082	GEL	/X/
PCB-1260	0.05	ug/L	UY2	0.05			SW846-8082	GEL	/X/
PCB-1268	0.05	ug/L	U	0.05			SW846-8082	GEL	/X/
Polychlorinated biphenyl	0.05	ug/L	UY2	0.05			SW846-8082	GEL	/X/

RADS

Alpha activity	5.78	pCi/L	U	13.7	7.92	7.98	SW846-9310	GEL	/X/
Americium-241	0.189	pCi/L	U	1.2	0.646	0.647	HASL 300, AM-05-RC M	GEL	/X/
Beta activity	12.3	pCi/L		8.35	6.28	6.68	SW846-9310	GEL	/X/
Cesium-137	0.475	pCi/L	U	1.31	0.734	0.765	EPA-901.1	GEL	/X/
Cobalt-60	-0.0884	pCi/L	U	1.28	0.718	0.72	EPA-901.1	GEL	/X/
Dissolved Alpha	-0.99	pCi/L	U	14.8	6.05	6.05	SW846-9310	GEL	/X/
Dissolved Beta	1.77	pCi/L	U	7.97	4.56	4.58	SW846-9310	GEL	/X/
Neptunium-237	-0.173	pCi/L	U	1.01	0.328	0.328	Alpha Spectroscopy	GEL	/X/
Plutonium-239/240	-0.437	pCi/L	U	1.48	0.422	0.422	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	2.78	pCi/L		0.285	0.808	0.816	AN-1418	GEL	/X/
Strontium-90	-0.101	pCi/L	U	4.96	2.56	2.56	EPA-905.0-M	GEL	/X/
Technetium-99	-8.73	pCi/L	U	16.2	9.05	9.05	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	-0.106	pCi/L	U	2.48	1.06	1.07	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	-12.5	pCi/L	U	51.9	47.8	48.2	EPA-901.1	GEL	/X/
Total Uranium	2.75	pCi/L	U	3.91	2.49	2.52	HASL 300, U-02-RC M	GEL	/X/
Tritium	-49	pCi/L	U	244	139	139	EPA-906.0-M	GEL	/X/
Uranium-234	0.994	pCi/L	U	2.25	1.51	1.52	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	-0.252	pCi/L	U	2.4	0.86	0.863	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	1.76	pCi/L	U	2.11	1.78	1.81	HASL 300, U-02-RC M	GEL	/X/

RADS-D

Americium-241, Dissolved	0.0896	pCi/L	U	1.36	0.664	0.664	HASL 300, AM-05-RC M	GEL	/X/
Cesium-137, Dissolved	-0.471	pCi/L	U	2.42	1.44	1.45	EPA-901.1	GEL	/X/
Cobalt-60, Dissolved	1.34	pCi/L	U	2.89	1.45	1.58	EPA-901.1	GEL	/X/
Neptunium-237, Dissolved	0.428	pCi/L	U	1.12	0.695	0.696	Alpha Spectroscopy	GEL	/X/
Plutonium-239/240, Dissolved	-0.0445	pCi/L	U	1.56	0.668	0.669	HASL 300, Pu-11-RC M	GEL	/X/
Technetium-99, Dissolved	-8.22	pCi/L	U	21	11.9	11.9	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230, Dissolved	0.688	pCi/L	U	2.16	1.26	1.28	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234, Dissolved	57.4	pCi/L	U	73.8	111	112	EPA-901.1	GEL	/X/
Total Uranium, Dissolved	2.01	pCi/L	U	3.71	2.32	2.33	HASL 300, U-02-RC M	GEL	/X/

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Uranium-234, Dissolved	1.06	pCi/L	U	2.08	1.49	1.5	HASL 300, U-02-RC M	GEL	/X/
Uranium-235, Dissolved	0.216	pCi/L	U	2.25	1.17	1.18	HASL 300, U-02-RC M	GEL	/X/
Uranium-238, Dissolved	0.727	pCi/L	U	2.08	1.34	1.34	HASL 300, U-02-RC M	GEL	/X/

VOA

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0198	ug/L	U	0.0198			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			EPA-624	GEL	/X/
1,4-Dichlorobenzene	2	ug/L		1			EPA-624	GEL	/X/
2-Butanone	5	ug/L	U	5			EPA-624	GEL	/X/
2-Hexanone	5	ug/L	U	5			EPA-624	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624	GEL	/X/
Acetone	5	ug/L	U	5			EPA-624	GEL	/X/
Acrolein	5	ug/L	U	5			EPA-624	GEL	/X/
Acrylonitrile	5	ug/L	U	5			EPA-624	GEL	/X/
Benzene	1	ug/L	U	1			EPA-624	GEL	/X/
Bromochloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Bromoform	1	ug/L	U	1			EPA-624	GEL	/X/
Bromomethane	1	ug/L	U	1			EPA-624	GEL	/X/
Carbon disulfide	5	ug/L	U	5			EPA-624	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			EPA-624	GEL	/X/
Chlorobenzene	0.67	ug/L	J	1			EPA-624	GEL	/X/
Chloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
Chloroform	1	ug/L	U	1			EPA-624	GEL	/X/
Chloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			EPA-624	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Dibromomethane	1	ug/L	U	1			EPA-624	GEL	/X/
Ethylbenzene	1	ug/L	U	1			EPA-624	GEL	/X/
Iodomethane	5	ug/L	U	5			EPA-624	GEL	/X/
m,p-Xylene	2	ug/L	U	2			EPA-624	GEL	/X/
Methylene chloride	2	ug/L	U	2			EPA-624	GEL	/X/
Styrene	1	ug/L	U	1			EPA-624	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
Toluene	1	ug/L	U	1			EPA-624	GEL	/X/
Total Xylene	3	ug/L	U	3			EPA-624	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			EPA-624	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U	5			EPA-624	GEL	/X/
Trichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Vinyl acetate	5	ug/L	U	5			EPA-624	GEL	/X/
Vinyl chloride	1	ug/L	U	1			EPA-624	GEL	/X/

WETCHEM

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Carbonaceous Biochemical Oxygen Demand (CBOD)	7.64	mg/L		6	SM-5210 B	GEL	/ X /
Chemical Oxygen Demand (COD)	55.1	mg/L		20	EPA-410.4	GEL	/ X /
Cyanide	0.005	mg/L	NU	0.005	SW846-9012B	GEL	/ X /
Dissolved Solids	461	mg/L		14.3	EPA-160.1	GEL	/ X /
Hardness - Total as CaCO3	446	mg/L		50	EPA-130.2	GEL	/ X /
Iodide	2.09	mg/L		0.5	EPA-300.0	GEL	/ X /
Suspended Solids	170	mg/L	J	250	EPA-160.2	GEL	/ X /
Total Organic Carbon (TOC)	17.1	mg/L		2	SW846-9060A	GEL	/ X /
Total Organic Halides (TOX)	79.6	ug/L		10	SW846-9020B	GEL	/ X /

Paducah OREIS Report for USL17-03

USL17-03-01

from: C-746-U

on 9/14/2017

Media: WW

SmpMethod: GR

Comments:

F001 tank at C-746-U landfill, HV-011. Clear liquid. F001 tank recirculated for 5 hrs prior to sampling. CH 9-14-17. C-746-U Landfill Leachate

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
ANION										
Bromide	0.478	mg/L	J		1			SW846-9056	GEL	/X/
Chloride	47.8	mg/L			2			SW846-9056	GEL	/X/
Fluoride	0.524	mg/L			0.1			SW846-9056	GEL	/X/
Nitrate as Nitrogen	3.85	mg/L			0.5			SW846-9056	GEL	/X/
Sulfate	178	mg/L	W		4			SW846-9056	GEL	/X/
FS										
Conductivity	1342	umho/cm						FS	FS	//
Dissolved Oxygen	6.62	mg/L						FS	FS	//
pH	7.28	Std Unit						FS	FS	//
Redox	376	mV						FS	FS	//
Temperature	70.7	deg F						FS	FS	//
Turbidity	10.8	NTU						FS	FS	//
METAL										
Aluminum	0.102	mg/L			0.05			SW846-6020	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/
Arsenic	0.00254	mg/L	J		0.005			SW846-6020	GEL	/X/
Barium	0.135	mg/L			0.002			SW846-6020	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020	GEL	/X/
Boron	0.983	mg/L			0.15			SW846-6020	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Calcium	151	mg/L			2			SW846-6020	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Cobalt	0.000578	mg/L	J		0.001			SW846-6020	GEL	/X/
Copper	0.000955	mg/L	J		0.001			SW846-6020	GEL	/X/
Iron	0.149	mg/L			0.1			SW846-6020	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020	GEL	/X/
Magnesium	35.9	mg/L			0.03			SW846-6020	GEL	/X/
Manganese	0.0143	mg/L			0.005			SW846-6020	GEL	/X/
Mercury	0.0002	mg/L	UN		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.000533	mg/L	B		0.0005			SW846-6020	GEL	/X/
Nickel	0.00318	mg/L			0.002			SW846-6020	GEL	/X/
Phosphorous	0.0228	mg/L	J		0.05			EPA-365.4	GEL	/X/
Potassium	5.19	mg/L			0.3			SW846-6020	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Sodium	95	mg/L			2.5			SW846-6020	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Uranium	0.215	mg/L			0.0002			SW846-6020	GEL	/X/
Vanadium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Zinc	0.0122	mg/L			0.01			SW846-6020	GEL	/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/
Arsenic, Dissolved	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Barium, Dissolved	0.135	mg/L			0.002			SW846-6020	GEL	/X/
Cadmium, Dissolved	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/

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Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Cobalt, Dissolved	0.000498	mg/L	J	0.001			SW846-6020	GEL	/X/
Copper, Dissolved	0.00138	mg/L		0.001			SW846-6020	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020	GEL	/X/
Manganese, Dissolved	0.00822	mg/L		0.005			SW846-6020	GEL	/X/
Nickel, Dissolved	0.00297	mg/L		0.002			SW846-6020	GEL	/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Uranium, Dissolved	0.216	mg/L		0.0002			SW846-6020	GEL	/X/
Vanadium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Zinc, Dissolved	0.00844	mg/L	J	0.01			SW846-6020	GEL	/X/

OTHOR

Oil and Grease	4.24	mg/L	U	4.24			EPA-1664A	GEL	/X/
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PCCB

PCB-1016	0.049	ug/L	U	0.049			SW846-8082	GEL	/X/
PCB-1221	0.049	ug/L	U	0.049			SW846-8082	GEL	/X/
PCB-1232	0.049	ug/L	U	0.049			SW846-8082	GEL	/X/
PCB-1242	0.049	ug/L	U	0.049			SW846-8082	GEL	/X/
PCB-1248	0.049	ug/L	U	0.049			SW846-8082	GEL	/X/
PCB-1254	0.049	ug/L	U	0.049			SW846-8082	GEL	/X/
PCB-1260	0.049	ug/L	UY2	0.049			SW846-8082	GEL	/X/
PCB-1268	0.049	ug/L	U	0.049			SW846-8082	GEL	/X/
Polychlorinated biphenyl	0.049	ug/L	UY2	0.049			SW846-8082	GEL	/X/

RADS

Alpha activity	104	pCi/L		10.8	22.9	28.5	SW846-9310	GEL	/X/
Americium-241	-0.0273	pCi/L	U	1.43	0.632	0.633	HASL 300, AM-05-RC M	GEL	/X/
Beta activity	63.6	pCi/L		12	11.7	15.7	SW846-9310	GEL	/X/
Cesium-137	-0.0353	pCi/L	U	1.4	0.822	0.822	EPA-901.1	GEL	/X/
Cobalt-60	0.398	pCi/L	U	1.46	0.778	0.799	EPA-901.1	GEL	/X/
Dissolved Alpha	80.8	pCi/L		13.3	21	24.8	SW846-9310	GEL	/X/
Dissolved Beta	43.1	pCi/L		12.8	10.7	12.8	SW846-9310	GEL	/X/
Neptunium-237	0.0062	pCi/L	U	1.02	0.46	0.46	Alpha Spectroscopy	GEL	/X/
Plutonium-239/240	0.0997	pCi/L	U	1.32	0.644	0.645	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.89	pCi/L		0.488	0.534	0.535	AN-1418	GEL	/X/
Strontium-90	0.967	pCi/L	U	5.66	3.16	3.16	EPA-905.0-M	GEL	/X/
Technetium-99	21.7	pCi/L		16.6	10.3	10.6	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	0.00462	pCi/L	U	2.04	0.947	0.948	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	62.6	pCi/L	U	94	143	144	EPA-901.1	GEL	/X/
Total Uranium	86.4	pCi/L		3.09	10.5	16.6	HASL 300, U-02-RC M	GEL	/X/
Tritium	-65.6	pCi/L	U	220	124	124	EPA-906.0-M	GEL	/X/
Uranium-234	11.9	pCi/L		1.86	3.95	4.45	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	1.47	pCi/L	U	2.05	1.78	1.8	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	73.1	pCi/L		1.37	9.6	15.8	HASL 300, U-02-RC M	GEL	/X/

RADS-D

Americium-241, Dissolved	0.258	pCi/L	U	0.704	0.508	0.509	HASL 300, AM-05-RC M	GEL	/X/
Cesium-137, Dissolved	0.761	pCi/L	U	2.96	1.66	1.7	EPA-901.1	GEL	/X/
Cobalt-60, Dissolved	1.34	pCi/L	U	3.53	1.85	1.95	EPA-901.1	GEL	/X/
Neptunium-237, Dissolved	1.34	pCi/L	U	2.32	1.59	1.6	Alpha Spectroscopy	GEL	/X/
Plutonium-239/240, Dissolved	0.0571	pCi/L	U	1.38	0.651	0.652	HASL 300, Pu-11-RC M	GEL	/X/
Technetium-99, Dissolved	19.6	pCi/L		16.1	9.91	10.1	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230, Dissolved	0.0768	pCi/L	U	1.43	0.683	0.687	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234, Dissolved	52.9	pCi/L	U	117	128	131	EPA-901.1	GEL	/X/
Total Uranium, Dissolved	87.8	pCi/L		3	9.99	15.4	HASL 300, U-02-RC M	GEL	/X/

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Uranium-234, Dissolved	15.5	pCi/L		2.02	4.23	4.94	HASL 300, U-02-RC M	GEL	/X/
Uranium-235, Dissolved	2.76	pCi/L		1.68	2.1	2.15	HASL 300, U-02-RC M	GEL	/X/
Uranium-238, Dissolved	69.6	pCi/L		1.47	8.8	14.4	HASL 300, U-02-RC M	GEL	/X/

VOA

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0196	ug/L	U	0.0196			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			EPA-624	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
2-Butanone	5	ug/L	U	5			EPA-624	GEL	/X/
2-Hexanone	5	ug/L	U	5			EPA-624	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624	GEL	/X/
Acetone	5	ug/L	U	5			EPA-624	GEL	/X/
Acrolein	5	ug/L	U	5			EPA-624	GEL	/X/
Acrylonitrile	5	ug/L	U	5			EPA-624	GEL	/X/
Benzene	1	ug/L	U	1			EPA-624	GEL	/X/
Bromochloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Bromoform	1	ug/L	U	1			EPA-624	GEL	/X/
Bromomethane	1	ug/L	U	1			EPA-624	GEL	/X/
Carbon disulfide	5	ug/L	U	5			EPA-624	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			EPA-624	GEL	/X/
Chlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
Chloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
Chloroform	1	ug/L	U	1			EPA-624	GEL	/X/
Chloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			EPA-624	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Dibromomethane	1	ug/L	U	1			EPA-624	GEL	/X/
Ethylbenzene	1	ug/L	U	1			EPA-624	GEL	/X/
Iodomethane	5	ug/L	U	5			EPA-624	GEL	/X/
m,p-Xylene	2	ug/L	U	2			EPA-624	GEL	/X/
Methylene chloride	2	ug/L	U	2			EPA-624	GEL	/X/
Styrene	1	ug/L	U	1			EPA-624	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
Toluene	1	ug/L	U	1			EPA-624	GEL	/X/
Total Xylene	3	ug/L	U	3			EPA-624	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			EPA-624	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U	5			EPA-624	GEL	/X/
Trichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
Trichlorofluoromethane	2.45	ug/L		1			EPA-624	GEL	/X/
Vinyl acetate	5	ug/L	U	5			EPA-624	GEL	/X/
Vinyl chloride	1	ug/L	U	1			EPA-624	GEL	/X/

WETCHEM

Paducah OREIS Report for USL17-03

Carbonaceous Biochemical Oxygen Demand (CBOD)	2.51	mg/L		2	SM-5210 B	GEL	/ X /
Chemical Oxygen Demand (COD)	19.7	mg/L	J	20	EPA-410.4	GEL	/ X /
Cyanide	0.005	mg/L	NU	0.005	SW846-9012B	GEL	/ X /
Dissolved Solids	823	mg/L		14.3	EPA-160.1	GEL	/ X /
Hardness - Total as CaCO3	477	mg/L		2	EPA-130.2	GEL	/ X /
Iodide	0.186	mg/L	J	0.5	EPA-300.0	GEL	/ X /
Suspended Solids	1.8	mg/L	J	2.5	EPA-160.2	GEL	/ X /
Total Organic Carbon (TOC)	7.34	mg/L		2	SW846-9060A	GEL	/ X /
Total Organic Halides (TOX)	68.4	ug/L		10	SW846-9020B	GEL	/ X /

Department for Environmental Protection/Division of Waste Management/Solid Waste Branch
 Quarterly Waste Quantity Report—DEP 7046Q (Revised 2-05)

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WASTE ACTIVITY: CONTAINED LANDFILL

Facility Name: U.S. Department of Energy- Paducah Gaseous Diffusion Plant Permit Number: 07300045
 County where landfill is located: McCracken Agency Interest Number: 3059
 Report for the Months of: October, November, December For the Year of: 2017

Waste Source (County and State)	Type of Waste			**Waste Used as Alternate Daily Cover as Approved (Tons Only)
	*Municipal Solid Waste (Tons Only)	*Industrial Waste (Tons Only)	*Special Waste (Tons Only)	
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (October)	0.00	155.89	0.00	0.00
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (November)	0.00	0.00	0.00	0.00
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (December)	0.00	10.94	0.00	0.00
Total for this page	0.00	166.83	0.00	0.00
Grand Total of all pages	0.00	166.83	0.00	0.00

Grand Total of Municipal, Industrial, and Special from all pages 166.83

*Does not include waste used as Alternate Daily Cover.
 **Indicate the amount used as Alternate Daily Cover. Please note this requires prior approval by the Cabinet.

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

Signature: _____ Phone Number: (270) 441-5113
 Name—Please Print: Myrna E. Redfield Date: _____
 Signature: _____ Phone Number: (270) 441-6800
 Name—Please Print: Jennifer Woodard Date: _____

This Certification clause shall be signed by the responsible person(s) described in 401 KAR 47:160, Section 6(1), and/or (2) and is required by 401 KAR 47:160, Section 6(4).

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