



Department of Energy

Portsmouth/Paducah Project Office
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513
(859) 219-4000

OCT 06 2017

Ms. Anita Young, Supervisor
Permit Administration Section
Division of Waste Management, Solid Waste Branch
Kentucky Department for Environmental Protection
300 Sower Boulevard, 2nd Floor
Frankfort, Kentucky 40601

PPPO-02-4476662-18A

Dear Ms. Young:

**C-746-S&T AND C-746-U SOLID WASTE LANDFILLS THIRD QUARTER
CALENDAR YEAR 2017 WASTE QUANTITY AND OPERATING REPORT,
PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY,
FPDP-RPT-0085/V3**

The U.S. Department of Energy has prepared the third quarter operating report for calendar year (CY) 2017 for the C-746-S&T and C-746-U Landfills at the Paducah Gaseous Diffusion Plant. Kentucky Solid Waste Regulation 401 KAR 47:190 § 8(1) and Solid Waste Permit SW07300014, SW07300015, SW07300045 require submittal of quarterly reports from operators of solid waste landfills. The contained landfill (C-746-U) is an active landfill. The residential landfill (C-746-S) has been inactive since July 1995, and the inert landfill (C-746-T) has been inactive since June 1992.

This report contains operating information for third quarter CY17. Per correspondence dated February 8, 2005, from Ron Gruzesky, Manager, Solid Waste Branch, an additional C-746-U Quarterly Waste Quantity Report form is included as a separate report in this submittal.

The groundwater analysis data, surface water data, and methane monitoring results are submitted as separate reports for the C-746-S&T Landfills and C-746-U Landfill.

If you have any questions or require additional information, please contact April Ladd at (270) 441-6843.

Sincerely,

A handwritten signature in black ink that reads "Jennifer Woodard". The signature is written in a cursive, flowing style.

Jennifer Woodard
Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosures:

1. C-746-S&T and C-746-U Solid Waste Landfill Third Quarter CY17 Waste Quantity and Operating Report
2. Waste Quantity Report Form

e-copy w/enclosures:

april.ladd@lex.doe.gov, PPPO
brad.montgomery@ffspaducah.com, FFS
brian.lowrance@ffspaducah.com, FFS
bruce.ford@ffspaducah.com, FFS
christopher.jung@ky.gov, KDEP
elizabeth.wyatt@ffspaducah.com, FFS
ffscorrespondence@ffspaducah.com, FFS
gary.hines@ffspaducah.com, FFS
gaye.brewer@ky.gov, KDEP
jennifer.blewett@ffspaducah.com, FFS
jennifer.watson@ffspaducah.com, FFS
jennifer.woodard@lex.doe.gov, PPPO
karen.walker@ffspaducah.com, FFS
kelly.layne@ffspaducah.com, FFS
kim.knerr@lex.doe.gov, PPPO
leo.williamson@ky.gov, KDEP
lisa.crabtree@ffspaducah.com, FFS
mike.guffey@ky.gov, KDEP
myrna.redfield@ffspaducah.com, FFS
pad.rmc@swiftstaley.com, SSI
tammy.smith@ffspaducah.com, FFS
tracey.duncan@lex.doe.gov, PPPO

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

Date Issued—October 2017

U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

Prepared by
FLUOR FEDERAL SERVICES, INC.,
Paducah Deactivation Project
managing the
Deactivation Project at the
Paducah Gaseous Diffusion Plant
under Task Order DE-DT0007774

THIS PAGE INTENTIONALLY LEFT BLANK

CONTENTS

REPORT SUMMARY.....	v
FACILITY INFORMATION SHEET.....	1
C-746-U LANDFILL QUARTERLY WASTE QUANTITY REPORT.....	3
C-746-U LANDFILL COVER LOG JULY, AUGUST, SEPTEMBER 2017.....	7
LEACHATE LOG.....	13
LEACHATE DATA.....	25

THIS PAGE INTENTIONALLY LEFT BLANK

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 third quarter of calendar year 2017 for the Paducah Gaseous Diffusion Plant, McCracken County, Kentucky.

In the third quarter of calendar year 2017, 243.02 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 243.02 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 third quarter of calendar year 2017, a total of 76,300 gal of leachate from the C-746-U Landfill, including 24,900 gal of leachate held during the previous quarter, was transported to the C-615 Wastewater Treatment Facility for treatment and discharge. A total of 2,500 gallons of leachate was recirculated onto the working face of the landfill during this quarter. A total of 23,900 gal of leachate from the C-746-U Landfill was held this quarter and is awaiting treatment and disposition during the fourth quarter. This volume was held because of toxicity source evaluation efforts at Outfall 020, through which treated landfill leachate is discharged (see Toxicity Reduction Evaluation Progress Reports for Kentucky Pollutant Discharge Elimination System Permit KY0004049–Outfall 020). Additionally, there were 1,500 gal of leachate from the C-746-S Landfill transported to the C-615 Wastewater Treatment Facility for treatment and discharge this quarter.

A leachate sample was obtained on September 14, 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 second 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 has 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.

FACILITY INFORMATION SHEET

Sampling Date: September 14, 2017

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

Facility Name: U.S. DOE—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: Myrna E. Redfield Phone No.: (270) 441-5113

Contact Person Title: Director, Environmental Management, Fluor Federal Services, Inc.

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

THIS PAGE INTENTIONALLY LEFT BLANK

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

THIS PAGE INTENTIONALLY LEFT BLANK

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 Permit Number SW07300045
 County where landfill is located: McCracken (PGDP) Agency Interest Number: 3059
 Report for the Months of: July, August, September For the Year of: 2017


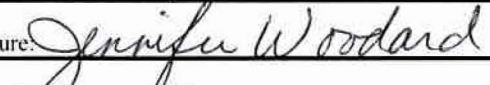
Waste Source (County and State)	Type of Waste			**Waste Used as Alternate Daily Cover as Approved (Tons Only)
	*Municipal Solid Waste (Tons Only)	*Industrial Waste (Tons Only)	*Special Waste (Tons Only)	
Paducah Gaseous Diffusion Plant (July)	0.00	111.31	0.00	0.00
Paducah Gaseous Diffusion Plant (August)	0.00	0.00	0.00	0.00
Paducah Gaseous Diffusion Plant (September)	0.00	131.71	0.00	0.00
Total for this page	0.00	243.02	0.00	0.00
Grand Total of all pages	0.00	243.02	0.00	0.00

***Grand Total of Municipal, Industrial, and Special from all pages** 243.02

***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: 10/6/17
 Signature:  Phone Number (270) 441-6800
 Name—Please Print: Jennifer Woodard Date: 10/6/2017

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).

THIS PAGE INTENTIONALLY LEFT BLANK

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

JULY, AUGUST, SEPTEMBER 2017

THIS PAGE INTENTIONALLY LEFT BLANK

COVER LOG

DEPARTMENT OF ENERGY
 COUNTY: McCracken

PERMIT NUMBER: 073-00045
 Month & Year: July 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						
10						
11						
12	D-5	YES	NO	NO	NO	YES
13	D-5	YES	NO	NO	NO	YES
14						
15						
16						
17						
18	D-5	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: August 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 August 2017					
10						
11						
12						
13						
14						
15						
16						
17						
18						
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: September 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						
10						
11						
12						
13						
14						
15						
16						
17						
18	D-4	YES	NO	NO	NO	YES
19	D-4	YES	NO	NO	NO	YES
20	D-4	YES	NO	NO	NO	YES
21	D-4	YES	NO	NO	NO	YES
22						
23						
24						
25	D-4	YES	NO	NO	NO	YES
26						
27	D-4	YES	NO	NO	NO	YES
28	D-4	YES	NO	NO	NO	YES
29						
30						
31						

THIS PAGE INTENTIONALLY LEFT BLANK

LEACHATE LOG

THIS PAGE INTENTIONALLY LEFT BLANK

Month July Year 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
07-03-17	1,2,3,4,5	F-001		8300		
07-03-17	1,2,3,4,5	F-002		500		
07-03-17	1,2,3,4,5	F-007		1500		
07-03-17	1,2,3,4,5	F-008		1500		
07-03-17	1,2,3,4,5	F-009		500		
07-05-17	1,2,3,4,5	F-001		9100		
07-05-17	1,2,3,4,5	F-002		3700		
07-05-17	1,2,3,4,5	F-007		1500		
07-05-17	1,2,3,4,5	F-008		1500		
07-05-17	1,2,3,4,5	F-009		500		
07-06-17	1,2,3,4,5	F-001		11800	4500	W
07-06-17	1,2,3,4,5	F-002		4000		
07-06-17	1,2,3,4,5	F-007		1500		
07-06-17	1,2,3,4,5	F-008		1500		
07-06-17	1,2,3,4,5	F-009		500		
07-10-17	1,2,3,4,5	F-001		7300	6800	W
07-10-17	1,2,3,4,5	F-002		13200		
07-10-17	1,2,3,4,5	F-007		1500		
07-10-17	1,2,3,4,5	F-008		1500		
07-10-17	1,2,3,4,5	F-009		500		
07-11-17	1,2,3,4,5	F-001		500		
07-11-17	1,2,3,4,5	F-002		14900	500	W
07-11-17	1,2,3,4,5	F-007		1500		
07-11-17	1,2,3,4,5	F-008		1500		
07-11-17	1,2,3,4,5	F-009		500		
07-12-17	1,2,3,4,5	F-001		500		
07-12-17	1,2,3,4,5	F-002		16000	2500	W

Month JulyYear 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
07-12-17	1,2,3,4,5	F-007		1500		
07-12-17	1,2,3,4,5	F-008		1500		
07-12-17	1,2,3,4,5	F-009		500		
07-13-17	1,2,3,4,5	F-001		3200		
07-13-17	1,2,3,4,5	F-002		13500	6000	W
07-13-17	1,2,3,4,5	F-007		1500		
07-13-17	1,2,3,4,5	F-008		1500		
07-13-17	1,2,3,4,5	F-009		500		
07-17-17	1,2,3,4,5	F-001		10700		
07-17-17	1,2,3,4,5	F-002		7500	4500	W
07-17-17	1,2,3,4,5	F-007		1500		
07-17-17	1,2,3,4,5	F-008		1500		
07-17-17	1,2,3,4,5	F-009		500		
07-18-17	1,2,3,4,5	F-001		12700		
07-18-17	1,2,3,4,5	F-002		3000	2000 500	W R
07-18-17	1,2,3,4,5	F-007		1500		
07-18-17	1,2,3,4,5	F-008		1500		
07-18-17	1,2,3,4,5	F-009		500		
07-19-17	1,2,3,4,5	F-001		13600	3000 1000	W R
07-19-17	1,2,3,4,5	F-002		500		
07-19-17	1,2,3,4,5	F-007		1500		
07-19-17	1,2,3,4,5	F-008		1500		
07-19-17	1,2,3,4,5	F-009		500		
07-20-17	1,2,3,4,5	F-001		9600	5500	W
07-20-17	1,2,3,4,5	F-002		3300		
07-20-17	1,2,3,4,5	F-007		1500		
07-20-17	1,2,3,4,5	F-008		1500		

Month July Year 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
07-20-17	1,2,3,4,5	F-009		500		
07-24-17	1,2,3,4,5	F-001		4100	1700	W
07-24-17	1,2,3,4,5	F-002		8400		
07-24-17	1,2,3,4,5	F-007		1500		
07-24-17	1,2,3,4,5	F-008		1500		
07-24-17	1,2,3,4,5	F-009		500		
07-25-17	1,2,3,4,5	F-001		2400	1900	W
07-25-17	1,2,3,4,5	F-002		9900	200 1000	W R
07-25-17	1,2,3,4,5	F-007		1500		
07-25-17	1,2,3,4,5	F-008		1500		
07-25-17	1,2,3,4,5	F-009		500		
07-26-17	1,2,3,4,5	F-001		2800		
07-26-17	1,2,3,4,5	F-002		8700	3700	W
07-26-17	1,2,3,4,5	F-007		1500		
07-26-17	1,2,3,4,5	F-008		1500		
07-26-17	1,2,3,4,5	F-009		500		
07-27-17	1,2,3,4,5	F-001		3100		
07-27-17	1,2,3,4,5	F-002		5000	3000	W
07-27-17	1,2,3,4,5	F-007		1500		
07-27-17	1,2,3,4,5	F-008		1500		
07-27-17	1,2,3,4,5	F-009		500		
07-31-17	1,2,3,4,5	F-001		7300	2600	W
07-31-17	1,2,3,4,5	F-002		2000	1500	W
07-31-17	1,2,3,4,5	F-007		1500		
07-31-17	1,2,3,4,5	F-008		1500		
07-31-17	1,2,3,4,5	F-009		500		
			<i>Jimmy Smith</i>	<i>7-31-17</i>		

Month AugustYear 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
08-01-17	1,2,3,4,5	F-001		4700	1500	W
08-01-17	1,2,3,4,5	F-002		1700		
08-01-17	1,2,3,4,5	F-007		1500		
08-01-17	1,2,3,4,5	F-008		1500		
08-01-17	1,2,3,4,5	F-009		500		
08-02-17	1,2,3,4,5	F-001		3200		
08-02-17	1,2,3,4,5	F-002		2500		
08-02-17	1,2,3,4,5	F-007		1500		
08-02-17	1,2,3,4,5	F-008		1500		
08-02-17	1,2,3,4,5	F-009		500		
08-03-17	1,2,3,4,5	F-001		3200		
08-03-17	1,2,3,4,5	F-002		4600		
08-03-17	1,2,3,4,5	F-007		1500		
08-03-17	1,2,3,4,5	F-008		1500		
08-03-17	1,2,3,4,5	F-009		500		
08-07-17	1,2,3,4,5	F-001		3200		
08-07-17	1,2,3,4,5	F-002		8200		
08-07-17	1,2,3,4,5	F-007		1500		
09-07-17	1,2,3,4,5	F-008		1500		
08-07-17	1,2,3,4,5	F-009		500		
08-08-17	1,2,3,4,5	F-001		3200	2700	waiting disposal next quarter
08-08-17	1,2,3,4,5	F-002		9000	4200	waiting disposal next quarter
08-08-17	1,2,3,4,5	F-007		1500		
08-08-17	1,2,3,4,5	F-008		1500		
08-08-17	1,2,3,4,5	F-009		500		
08-09-17	1,2,3,4,5	F-001		2000	1500	waiting disposal next quarter
08-09-17	1,2,3,4,5	F-002		4800	4300	waiting disposal next quarter

Month August Year 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
08-09-17	1,2,3,4,5	F-007		1500		
08-09-17	1,2,3,4,5	F-008		1500		
08-09-17	1,2,3,4,5	F-009		500		
08-10-17	1,2,3,4,5	F-001		500		
08-10-17	1,2,3,4,5	F-002		1500	1000	waiting disposal next quarter
08-10-17	1,2,3,4,5	F-007		1500		
08-10-17	1,2,3,4,5	F-008		1500		
08-10-17	1,2,3,4,5	F-009		500		
08-14-17	1,2,3,4,5	F-001		3900		
08-14-17	1,2,3,4,5	F-002		500		
08-14-17	1,2,3,4,5	F-007		1500		
08-14-17	1,2,3,4,5	F-008		1500		
08-14-17	1,2,3,4,5	F-009		500		
08-15-17	1,2,3,4,5	F-001		5300		
08-15-17	1,2,3,4,5	F-002		500		
08-15-17	1,2,3,4,5	F-007		1500		
08-15-17	1,2,3,4,5	F-008		1500		
08-15-17	1,2,3,4,5	F-009		500		
08-16-17	1,2,3,4,5	F-001		5400	3400	waiting disposal next quarter
08-16-17	1,2,3,4,5	F-002		500		
08-16-17	1,2,3,4,5	F-007		1500		
08-16-17	1,2,3,4,5	F-008		1500		
08-16-17	1,2,3,4,5	F-009		500		
08-17-17	1,2,3,4,5	F-001		2000		
08-17-17	1,2,3,4,5	F-002		1600		
08-17-17	1,2,3,4,5	F-007		1500		
08-17-17	1,2,3,4,5	F-008		1500		

Month AugustYear 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
08-17-17	1,2,3,4,5	F-009		500		
08-21-17	1,2,3,4,5	F-001		2000		
08-21-17	1,2,3,4,5	F-002		5200		
08-21-17	1,2,3,4,5	F-007		1500		
08-21-17	1,2,3,4,5	F-008		1500		
08-21-17	1,2,3,4,5	F-009		500		
08-22-17	1,2,3,4,5	F-001		2000		
08-22-17	1,2,3,4,5	F-002		6100		
08-22-17	1,2,3,4,5	F-007		1500		
08-22-17	1,2,3,4,5	F-008		1500		
08-22-17	1,2,3,4,5	F-009		500		
08-23-17	1,2,3,4,5	F-001		2000		
08-23-17	1,2,3,4,5	F-002		7100		
08-23-17	1,2,3,4,5	F-007		1500		
08-23-17	1,2,3,4,5	F-008		1500		
08-23-17	1,2,3,4,5	F-009		500		
08-24-17	1,2,3,4,5	F-001		2000		
08-24-17	1,2,3,4,5	F-002		7900		
08-24-17	1,2,3,4,5	F-007		1500		
08-24-17	1,2,3,4,5	F-008		1500		
08-24-17	1,2,3,4,5	F-009		500		
08-28-17	1,2,3,4,5	F-001		2000		
08-28-17	1,2,3,4,5	F-002		10800		
08-28-17	1,2,3,4,5	F-007		1500		
08-28-17	1,2,3,4,5	F-008		1500		
08-28-17	1,2,3,4,5	F-009		500		
08-29-17	1,2,3,4,5	F-001		2000	1500	waiting disposal next quarter

Month August Year 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
08-29-17	1,2,3,4,5	F-002		12200	1300	waiting disposal next quarter
08-29-17	1,2,3,4,5	F-007		1500		
08-29-17	1,2,3,4,5	F-008		1500		
08-29-17	1,2,3,4,5	F-009		500		
08-30-17	1,2,3,4,5	F-001		1500		
08-30-17	1,2,3,4,5	F-002		10900		
08-30-17	1,2,3,4,5	F-007		1500		
08-30-17	1,2,3,4,5	F-008		1500		
08-30-17	1,2,3,4,5	F-009		500		
08-31-17	1,2,3,4,5	F-001		2400		
08-31-17	1,2,3,4,5	F-002		10900		
08-31-17	1,2,3,4,5	F-007		1500		
08-31-17	1,2,3,4,5	F-008		1500		
08-31-17	1,2,3,4,5	F-009		500		
<i>Jenny Smith 8-31-17</i>						

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

Month SeptemberYear 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
09-05-17	1,2,3,4,5	F-001		9500		
09-05-17	1,2,3,4,5	F-002		10900		
09-05-17	1,2,3,4,5	F-007		1500		
09-05-17	1,2,3,4,5	F-008		1500		
09-05-17	1,2,3,4,5	F-009		500		
09-06-17	1,2,3,4,5	F-001		9500		
09-06-17	1,2,3,4,5	F-002		10900	4000	waiting disposal next quarter
09-06-17	1,2,3,4,5	F-007		1500		
09-06-17	1,2,3,4,5	F-008		1500		
09-06-17	1,2,3,4,5	F-009		500		
09-07-17	1,2,3,4,5	F-001		11000		
09-07-17	1,2,3,4,5	F-002		6900		
09-07-17	1,2,3,4,5	F-007		1500		
09-07-17	1,2,3,4,5	F-008		1500		
09-07-17	1,2,3,4,5	F-009		500		
09-11-17	1,2,3,4,5	F-001		14400		
09-11-17	1,2,3,4,5	F-002		6900		
09-11-17	1,2,3,4,5	F-007		1500		
09-11-17	1,2,3,4,5	F-008		1500		
09-11-17	1,2,3,4,5	F-009		500		
09-12-17	1,2,3,4,5	F-001		15500		
09-12-17	1,2,3,4,5	F-002		6900		
09-12-17	1,2,3,4,5	F-007		1500		
09-12-17	1,2,3,4,5	F-008		1500		
09-12-17	1,2,3,4,5	F-009		500		
09-13-17	1,2,3,4,5	F-001		16500		
09-13-17	1,2,3,4,5	F-002		6900		

Month SeptemberYear 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
09/13/17	1,2,3,4,5	F-007		1500		
09/13/17	1,2,3,4,5	F-008		1500		
09/13/17	1,2,3,4,5	F-009		500		
09/14/17	1,2,3,4,5	F-001		17500		
09/14/17	1,2,3,4,5	F-002		6900		
09/14/17	1,2,3,4,5	F-007		1500		
09/14/17	1,2,3,4,5	F-008		1500		
09/14/17	1,2,3,4,5	F-009		500		
09/18/17	1,2,3,4,5	F-001		17500		
09/18/17	1,2,3,4,5	F-002		8100		
09/18/17	1,2,3,4,5	F-007		1500		
09/18/17	1,2,3,4,5	F-008		1500		
09/18/07	1,2,3,4,5	F-009		500		
09/19/07	1,2,3,4,5	F-001		17500		
09/19/07	1,2,3,4,5	F-002		8600		
09/19/17	1,2,3,4,5	F-007		1500		
09/19/17	1,2,3,4,5	F-008		1500		
09/19/17	1,2,3,4,5	F-009		500		
09/20/17	1,2,3,4,5	F-001		17500		
09/20/17	1,2,3,4,5	F-002		9100		
09/20/17	1,2,3,4,5	F-007		1500		
09/20/17	1,2,3,4,5	F-008		1500		
09/20/17	1,2,3,4,5	F-009		500		
09/21/17	1,2,3,4,5	F-001		17500		
09/21/17	1,2,3,4,5	F-002		12300		
09/21/17	1,2,3,4,5	F-007		1500		
09/21/17	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 September

Year 2017

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
09/21/17	1,2,3,4,5	F-009		500		
09/25/17	1,2,3,4,5	F-001		17500		
09/25/17	1,2,3,4,5	F-002		13700		
09/25/17	1,2,3,4,5	F-007		1500		
09/25/17	1,2,3,4,5	F-008		1500		
09/25/17	1,2,3,4,5	F-009		500		
09/27/17	1,2,3,4,5	F-001		17500		
09/27/17	1,2,3,4,5	F-002		16300		
09/27/17	1,2,3,4,5	F-007		1500		
09/27/17	1,2,3,4,5	F-008		1500		
09/27/17	1,2,3,4,5	F-009		500		
09/28/17	1,2,3,4,5	F-001		17500		
09/28/17	1,2,3,4,5	F-002		17000		
09/28/17	1,2,3,4,5	F-007		1500		
09/28/17	1,2,3,4,5	F-008		1500		
09/28/17	1,2,3,4,5	F-009		500		
<i>Jimmy Smith 9-28-17</i>						

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

LEACHATE DATA

THIS PAGE INTENTIONALLY LEFT BLANK

Paducah OREIS Report for USL17-01

USL17-01-BT

from:

on 5/18/2017

Media: WQ

SmpMethod:

Comments:

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
SVOA										
1,2-Dichlorobenzene	1	ug/L	U		1			EPA-624	GEL	/ X /
1,4-Dichlorobenzene	1	ug/L	U		1			EPA-624	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-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 /
2-Butanone	5	ug/L	U		5			EPA-624	GEL	/ X /
2-Hexanone	5	ug/L	UY1		5			EPA-624	GEL	/ X /
4-Methyl-2-pentanone	5	ug/L	U		5			EPA-624	GEL	/ X /
Acetone	5	ug/L	UY1		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 /

Paducah OREIS Report for USL17-01

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 /

Paducah OREIS Report for USL17-01

USL17-01-02

from: C-746-S

on 5/18/2017

Media: WW

Comments: C-746-S Landfill Leachate WIDC-746-S landfill, Cell #2. Mostly clear water. Purged 1/2 gal through tubing prior to sampling. CH 5-18-17

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
ANION										
Bromide	0.2	mg/L	U		0.2			SW846-9056	GEL	/X/
Chloride	4.1	mg/L			0.2			SW846-9056	GEL	/X/
Fluoride	0.7	mg/L			0.1			SW846-9056	GEL	/X/
Nitrate as Nitrogen	0.0664	mg/L	J		0.2			SW846-9056	GEL	/X/
Sulfate	38.2	mg/L			0.8			SW846-9056	GEL	/X/
FS										
Conductivity	855	umho/cm						FS	FS	/X/
Dissolved Oxygen	2.62	mg/L						FS	FS	/X/
pH	7.01	Std Unit						FS	FS	/X/
Redox	209	mV						FS	FS	/X/
Temperature	65.3	deg F						FS	FS	/X/
Turbidity	10.1	NTU						FS	FS	/X/
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	0.0079	mg/L	B		0.005			SW846-6020	GEL	/X/
Barium	0.205	mg/L			0.002			SW846-6020	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020	GEL	/X/
Boron	0.0572	mg/L			0.015			SW846-6020	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Calcium	137	mg/L			4			SW846-6020	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Cobalt	0.00247	mg/L			0.001			SW846-6020	GEL	/X/
Copper	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Iron	3.37	mg/L			0.1			SW846-6020	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020	GEL	/X/
Magnesium	19.4	mg/L			0.03			SW846-6020	GEL	/X/
Manganese	2.26	mg/L	N		0.1			SW846-6020	GEL	/X/
Mercury	0.0002	mg/L	UN		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.00221	mg/L			0.0005			SW846-6020	GEL	/X/
Nickel	0.00328	mg/L			0.002			SW846-6020	GEL	/X/
Phosphorous	0.0239	mg/L	J		0.05			EPA-365.4	GEL	/X/
Potassium	0.754	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	22.5	mg/L			0.25			SW846-6020	GEL	/X/
Tantalum	0.005	mg/L	UN		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	0.00468	mg/L			0.0002			SW846-6020	GEL	/X/
Vanadium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Zinc	0.00526	mg/L	J		0.01			SW846-6020	GEL	/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/

Paducah OREIS Report for USL17-01

Arsenic, Dissolved	0.00328	mg/L	BJ	0.005			SW846-6020	GEL	/ X /
Barium, Dissolved	0.173	mg/L		0.002			SW846-6020	GEL	/ X /
Cadmium, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/ X /
Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/ X /
Cobalt, Dissolved	0.00154	mg/L		0.001			SW846-6020	GEL	/ X /
Copper, Dissolved	0.000321	mg/L	J	0.001			SW846-6020	GEL	/ X /
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020	GEL	/ X /
Manganese, Dissolved	1.33	mg/L	N	0.1			SW846-6020	GEL	/ X /
Nickel, Dissolved	0.00212	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	0.00519	mg/L		0.0002			SW846-6020	GEL	/ X /
Vanadium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/ X /
Zinc, Dissolved	0.00704	mg/L	J	0.01			SW846-6020	GEL	/ X /

OTHOR

Oil and Grease	4.27	mg/L	U	4.27			EPA-1664A	GEL	/ X /
----------------	------	------	---	------	--	--	-----------	-----	-------

PCCB

PCB-1016	0.0952	ug/L	U	0.0952			SW846-8082	GEL	/ X /
PCB-1221	0.0952	ug/L	U	0.0952			SW846-8082	GEL	/ X /
PCB-1232	0.0952	ug/L	U	0.0952			SW846-8082	GEL	/ X /
PCB-1242	0.0952	ug/L	U	0.0952			SW846-8082	GEL	/ X /
PCB-1248	0.0952	ug/L	U	0.0952			SW846-8082	GEL	/ X /
PCB-1254	0.0952	ug/L	U	0.0952			SW846-8082	GEL	/ X /
PCB-1260	0.0952	ug/L	U	0.0952			SW846-8082	GEL	/ X /
PCB-1268	0.0952	ug/L	U	0.0952			SW846-8082	GEL	/ X /
Polychlorinated biphenyl	0.0952	ug/L	U	0.0952			SW846-8082	GEL	/ X /

RADS

Alpha activity	9.14	pCi/L	U	9.56	6.43	6.6	SW846-9310	GEL	/ X /
Americium-241	0.231	pCi/L	U	0.363	0.292	0.294	HASL 300, AM-05-RC M	GEL	/ X /
Beta activity	4.39	pCi/L	U	6.08	3.85	3.94	SW846-9310	GEL	/ X /
Cesium-137	0.0996	pCi/L	U	1.53	0.884	0.885	EPA-901.1	GEL	/ X /
Cobalt-60	-2.41	pCi/L	U	1.56	2.35	2.59	EPA-901.1	GEL	/ X /
Dissolved Alpha	6.64	pCi/L	U	9.95	6.36	6.45	SW846-9310	GEL	/ X /
Dissolved Beta	-0.187	pCi/L	U	9.43	5.08	5.08	SW846-9310	GEL	/ X /
Neptunium-237	-0.0357	pCi/L	U	0.412	0.158	0.158	Alpha Spectroscopy	GEL	/ X /
Plutonium-239/240	0.0199	pCi/L	U	0.435	0.208	0.209	HASL 300, Pu-11-RC M	GEL	/ X /
Radium-226	0.605	pCi/L		0.514	0.52	0.52	AN-1418	GEL	/ X /
Strontium-90	-0.549	pCi/L	U	3.97	1.92	1.92	EPA-905.0-M	GEL	/ X /
Technetium-99	0.675	pCi/L	U	19.7	11.4	11.4	HASL 300, Tc-02-RC M	GEL	/ X /
Thorium-230	0.133	pCi/L	U	0.412	0.245	0.249	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-234	-4.28	pCi/L	U	36.3	31.9	32	EPA-901.1	GEL	/ X /
Total Uranium	3.99	pCi/L		0.982	1.26	1.32	HASL 300, U-02-RC M	GEL	/ X /
Tritium	-35.8	pCi/L	U	240	137	137	EPA-906.0-M	GEL	/ X /
Uranium-234	2.24	pCi/L		0.589	0.915	0.973	HASL 300, U-02-RC M	GEL	/ X /
Uranium-235	0.278	pCi/L	U	0.612	0.442	0.444	HASL 300, U-02-RC M	GEL	/ X /
Uranium-238	1.48	pCi/L		0.495	0.746	0.778	HASL 300, U-02-RC M	GEL	/ X /

RADS-D

Americium-241, Dissolved	0.0297	pCi/L	U	0.316	0.165	0.165	HASL 300, AM-05-RC M	GEL	/ X /
Cesium-137, Dissolved	-0.35	pCi/L	U	6.62	3.44	3.44	EPA-901.1	GEL	/ X /
Cobalt-60, Dissolved	0.793	pCi/L	U	7.69	3.4	3.42	EPA-901.1	GEL	/ X /
Neptunium-237, Dissolved	0.0562	pCi/L	U	0.354	0.211	0.211	Alpha Spectroscopy	GEL	/ X /

Paducah OREIS Report for USL17-01

Plutonium-239/240, Dissolved	-0.0636	pCi/L	U	0.54	0.192	0.192	HASL 300, Pu-11-RC M	GEL	/ X /
Technetium-99, Dissolved	0.5	pCi/L	U	18.9	10.9	10.9	HASL 300, Tc-02-RC M	GEL	/ X /
Thorium-230, Dissolved	0.316	pCi/L	U	0.471	0.332	0.34	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-234, Dissolved	-22.2	pCi/L	U	255	145	145	EPA-901.1	GEL	/ X /
Total Uranium, Dissolved	3.79	pCi/L		0.953	1.36	1.42	HASL 300, U-02-RC M	GEL	/ X /
Uranium-234, Dissolved	1.71	pCi/L		0.609	0.893	0.934	HASL 300, U-02-RC M	GEL	/ X /
Uranium-235, Dissolved	0.272	pCi/L	U	0.408	0.466	0.468	HASL 300, U-02-RC M	GEL	/ X /
Uranium-238, Dissolved	1.82	pCi/L		0.609	0.919	0.964	HASL 300, U-02-RC M	GEL	/ X /

SVOA

1,2-Dichlorobenzene	1	ug/L	U				EPA-624	GEL	/ X /
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624	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	0.0197	ug/L	U	0.0197			SW846-8011	GEL	/ X /
1,2-Dibromoethane	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 /
2-Butanone	5	ug/L	U	5			EPA-624	GEL	/ X /
2-Hexanone	5	ug/L	UY1	5			EPA-624	GEL	/ X /
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624	GEL	/ X /
Acetone	5	ug/L	UY1	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 /

Paducah OREIS Report for USL17-01

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

Carbonaceous Biochemical Oxygen Demand (CBOD)	2	mg/L	UX	2	SM-5210 B	GEL	/X/
Chemical Oxygen Demand (COD)	37.6	mg/L		20	EPA-410.4	GEL	/X/
Cyanide	0.005	mg/L	U	0.005	SW846-9012B	GEL	/X/
Dissolved Solids	479	mg/L		14.3	EPA-160.1	GEL	/X/
Hardness - Total as CaCO3	564	mg/L		10	EPA-130.2	GEL	/X/
Iodide	0.229	mg/L	J	0.5	EPA-300.0	GEL	/X/
Suspended Solids	7	mg/L		3.13	EPA-160.2	GEL	/X/
Total Organic Carbon (TOC)	3.82	mg/L		2	SW846-9060A	GEL	/X/
Total Organic Halides (TOX)	16.3	ug/L		10	SW846-9020B	GEL	/X/

Paducah OREIS Report for USL17-01

USL17-01-01

from: C-746-U

on 5/18/2017

Media: WW

SmpMethod: GR

 Comments: C-746-U Landfill Leachate WIDC-746-U landfill, F-002 Tank, HV-012. Mostly clear water. Purged 1/2 gal from HV-012 prior to sampling.
CH 5-18-17

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
ANION										
Bromide	0.26	mg/L			0.2			SW846-9056	GEL	/X/
Chloride	43.1	mg/L			1			SW846-9056	GEL	/X/
Fluoride	0.592	mg/L			0.1			SW846-9056	GEL	/X/
Nitrate as Nitrogen	2.51	mg/L			0.5			SW846-9056	GEL	/X/
Sulfate	231	mg/L			8			SW846-9056	GEL	/X/
FS										
Conductivity	1365	umho/cm						FS	FS	/X/
Dissolved Oxygen	6.05	mg/L						FS	FS	/X/
pH	7.15	Std Unit						FS	FS	/X/
Redox	407	mV						FS	FS	/X/
Temperature	73.8	deg F						FS	FS	/X/
Turbidity	9.8	NTU						FS	FS	/X/
METAL										
Aluminum	1.05	mg/L			0.05			SW846-6020	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/
Arsenic	0.00448	mg/L	BJ		0.005			SW846-6020	GEL	/X/
Barium	0.128	mg/L			0.002			SW846-6020	GEL	/X/
Beryllium	0.000342	mg/L	J		0.0005			SW846-6020	GEL	/X/
Boron	0.868	mg/L			0.3			SW846-6020	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Calcium	168	mg/L			4			SW846-6020	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Cobalt	0.00254	mg/L			0.001			SW846-6020	GEL	/X/
Copper	0.00181	mg/L			0.001			SW846-6020	GEL	/X/
Iron	0.963	mg/L			0.1			SW846-6020	GEL	/X/
Lead	0.00057	mg/L	J		0.002			SW846-6020	GEL	/X/
Magnesium	45.3	mg/L			0.03			SW846-6020	GEL	/X/
Manganese	0.119	mg/L	N		0.005			SW846-6020	GEL	/X/
Mercury	0.0002	mg/L	UN		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.000879	mg/L			0.0005			SW846-6020	GEL	/X/
Nickel	0.00614	mg/L			0.002			SW846-6020	GEL	/X/
Phosphorous	0.0424	mg/L	J		0.05			EPA-365.4	GEL	/X/
Potassium	6	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	104	mg/L			5			SW846-6020	GEL	/X/
Tantalum	0.005	mg/L	UN		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	0.0131	mg/L			0.01			SW846-6020	GEL	/X/
Uranium	0.191	mg/L			0.004			SW846-6020	GEL	/X/
Vanadium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Zinc	0.0262	mg/L			0.01			SW846-6020	GEL	/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/

Paducah OREIS Report for USL17-01

Arsenic, Dissolved	0.00264	mg/L	BJ	0.005			SW846-6020	GEL	/ X /
Barium, Dissolved	0.112	mg/L		0.002			SW846-6020	GEL	/ X /
Cadmium, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/ X /
Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/ X /
Cobalt, Dissolved	0.000576	mg/L	J	0.001			SW846-6020	GEL	/ X /
Copper, Dissolved	0.00104	mg/L		0.001			SW846-6020	GEL	/ X /
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020	GEL	/ X /
Manganese, Dissolved	0.0126	mg/L	N	0.005			SW846-6020	GEL	/ X /
Nickel, Dissolved	0.00339	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	0.202	mg/L		0.004			SW846-6020	GEL	/ X /
Vanadium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/ X /
Zinc, Dissolved	0.0118	mg/L		0.01			SW846-6020	GEL	/ X /

OTHOR

Oil and Grease	4	mg/L	U	4			EPA-1664A	GEL	/ X /
----------------	---	------	---	---	--	--	-----------	-----	-------

PCCB

PCB-1016	0.0962	ug/L	U	0.0962			SW846-8082	GEL	/ X /
PCB-1221	0.0962	ug/L	U	0.0962			SW846-8082	GEL	/ X /
PCB-1232	0.0962	ug/L	U	0.0962			SW846-8082	GEL	/ X /
PCB-1242	0.0962	ug/L	U	0.0962			SW846-8082	GEL	/ X /
PCB-1248	0.0962	ug/L	U	0.0962			SW846-8082	GEL	/ X /
PCB-1254	0.0962	ug/L	U	0.0962			SW846-8082	GEL	/ X /
PCB-1260	0.0962	ug/L	U	0.0962			SW846-8082	GEL	/ X /
PCB-1268	0.0962	ug/L	U	0.0962			SW846-8082	GEL	/ X /
Polychlorinated biphenyl	0.0962	ug/L	U	0.0962			SW846-8082	GEL	/ X /

RADS

Alpha activity	103	pCi/L		14.6	20.6	26.6	SW846-9310	GEL	/ X /
Americium-241	-0.272	pCi/L	U	0.886	0.352	0.352	HASL 300, AM-05-RC M	GEL	/ X /
Beta activity	98.4	pCi/L		8.09	10.8	19.8	SW846-9310	GEL	/ X /
Cesium-137	0.69	pCi/L	U	2.3	1.26	1.3	EPA-901.1	GEL	/ X /
Cobalt-60	-0.471	pCi/L	U	1.99	1.13	1.15	EPA-901.1	GEL	/ X /
Dissolved Alpha	87.3	pCi/L		12.9	20.1	24.6	SW846-9310	GEL	/ X /
Dissolved Beta	28.6	pCi/L		5.89	6.64	8.62	SW846-9310	GEL	/ X /
Neptunium-237	0.0744	pCi/L	U	0.472	0.254	0.254	Alpha Spectroscopy	GEL	/ X /
Plutonium-239/240	0.148	pCi/L	U	0.403	0.291	0.291	HASL 300, Pu-11-RC M	GEL	/ X /
Radium-226	0.76	pCi/L		0.253	0.525	0.526	AN-1418	GEL	/ X /
Strontium-90	-0.9	pCi/L	U	3.89	1.83	1.83	EPA-905.0-M	GEL	/ X /
Technetium-99	33.2	pCi/L		19.1	12.2	12.7	HASL 300, Tc-02-RC M	GEL	/ X /
Thorium-230	0.451	pCi/L		0.451	0.374	0.386	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-234	0	pCi/L	UX	34	49.5	50.1	EPA-901.1	GEL	/ X /
Total Uranium	76.6	pCi/L		0.737	4.93	10.3	HASL 300, U-02-RC M	GEL	/ X /
Tritium	-9.76	pCi/L	U	237	136	136	EPA-906.0-M	GEL	/ X /
Uranium-234	13.6	pCi/L		0.392	2.08	2.85	HASL 300, U-02-RC M	GEL	/ X /
Uranium-235	1.19	pCi/L		0.485	0.718	0.738	HASL 300, U-02-RC M	GEL	/ X /
Uranium-238	61.7	pCi/L		0.392	4.41	9.88	HASL 300, U-02-RC M	GEL	/ X /

RADS-D

Americium-241, Dissolved	0.286	pCi/L	U	0.6	0.38	0.382	HASL 300, AM-05-RC M	GEL	/ X /
Cesium-137, Dissolved	-1.53	pCi/L	U	7.07	3.9	3.96	EPA-901.1	GEL	/ X /
Cobalt-60, Dissolved	0.534	pCi/L	U	10.1	5.18	5.18	EPA-901.1	GEL	/ X /
Neptunium-237, Dissolved	0.00322	pCi/L	U	0.531	0.239	0.239	Alpha Spectroscopy	GEL	/ X /

Paducah OREIS Report for USL17-01

Plutonium-239/240, Dissolved	0.173	pCi/L	U	0.38	0.275	0.276	HASL 300, Pu-11-RC M	GEL	/ X /
Technetium-99, Dissolved	37.2	pCi/L		18.4	11.9	12.6	HASL 300, Tc-02-RC M	GEL	/ X /
Thorium-230, Dissolved	0.0114	pCi/L	U	0.513	0.238	0.239	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-234, Dissolved	157	pCi/L	U	361	231	244	EPA-901.1	GEL	/ X /
Total Uranium, Dissolved	81.7	pCi/L		0.868	5.07	10.7	HASL 300, U-02-RC M	GEL	/ X /
Uranium-234, Dissolved	15.5	pCi/L		0.567	2.21	3.13	HASL 300, U-02-RC M	GEL	/ X /
Uranium-235, Dissolved	1.78	pCi/L		0.48	0.857	0.894	HASL 300, U-02-RC M	GEL	/ X /
Uranium-238, Dissolved	64.4	pCi/L		0.448	4.48	10.2	HASL 300, U-02-RC M	GEL	/ X /

SVOA

1,2-Dichlorobenzene	1	ug/L	U				EPA-624	GEL	/ X /
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624	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	0.0197	ug/L	U	0.0197			SW846-8011	GEL	/ X /
1,2-Dibromoethane	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 /
2-Butanone	5	ug/L	U	5			EPA-624	GEL	/ X /
2-Hexanone	5	ug/L	UY1	5			EPA-624	GEL	/ X /
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624	GEL	/ X /
Acetone	5	ug/L	UY1	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 /

Paducah OREIS Report for USL17-01

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	2.91	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

Carbonaceous Biochemical Oxygen Demand (CBOD)	2	mg/L	UX	2	SM-5210 B	GEL	/ X /
Chemical Oxygen Demand (COD)	37.6	mg/L		20	EPA-410.4	GEL	/ X /
Cyanide	0.005	mg/L	U	0.005	SW846-9012B	GEL	/ X /
Dissolved Solids	899	mg/L		14.3	EPA-160.1	GEL	/ X /
Hardness - Total as CaCO3	569	mg/L		5	EPA-130.2	GEL	/ X /
Iodide	0.199	mg/L	J	0.5	EPA-300.0	GEL	/ X /
Suspended Solids	13.2	mg/L		5	EPA-160.2	GEL	/ X /
Total Organic Carbon (TOC)	8.38	mg/L		2	SW846-9060A	GEL	/ X /
Total Organic Halides (TOX)	60.7	ug/L		10	SW846-9020B	GEL	/ X /

Paducah OREIS Report for USL17-02

USL17-02-BT

from:

on 6/28/2017

Media: WQ

SmpMethod:

Comments:

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
SVOA										
1,2-Dichlorobenzene	1	ug/L	U		1			EPA-624	GEL	/ X /
1,4-Dichlorobenzene	1	ug/L	U		1			EPA-624	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	0.0201	ug/L	U		0.0201			SW846-8011	GEL	/ X /
1,2-Dibromoethane	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 /
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	2.39	ug/L	J		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 /

Paducah OREIS Report for USL17-02

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 /

Paducah OREIS Report for USL17-02

USL17-02-01

from: C-746-U

on 6/28/2017

Media: WW

SmpMethod: GR

Comments: C-746-U Landfill Treated Leachate RFD 120969 Tank F012U leachate treatment system tank F012. Mostly clear water with a trace of suspended solids. Water has a pungent odor. Water has a sheen on the surface. BT 6-28-17

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
ANION										
Bromide	0.123	mg/L	J		0.2			SW846-9056	GEL	/ X /
Chloride	30.6	mg/L			1			SW846-9056	GEL	/ X /
Fluoride	0.342	mg/L			0.1			SW846-9056	GEL	/ X /
Nitrate as Nitrogen	0.5	mg/L	U		0.5			SW846-9056	GEL	/ X /
Sulfate	17.6	mg/L			2			SW846-9056	GEL	/ X /
FS										
Conductivity	1434	umho/cm						FS	FS	/ X /
Dissolved Oxygen	0.18	mg/L						FS	FS	/ X /
pH	7.03	Std Unit						FS	FS	/ X /
Redox	-149	mV						FS	FS	/ X /
Temperature	82.9	deg F						FS	FS	/ X /
Turbidity	9	NTU						FS	FS	/ X /
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	0.00273	mg/L	J		0.005			SW846-6020	GEL	/ X /
Barium	0.0974	mg/L			0.002			SW846-6020	GEL	/ X /
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020	GEL	/ X /
Boron	0.492	mg/L			0.15			SW846-6020	GEL	/ X /
Cadmium	0.001	mg/L	U		0.001			SW846-6020	GEL	/ X /
Calcium	139	mg/L			2			SW846-6020	GEL	/ X /
Chromium	0.01	mg/L	U		0.01			SW846-6020	GEL	/ X /
Cobalt	0.000587	mg/L	J		0.001			SW846-6020	GEL	/ X /
Copper	0.000501	mg/L	J		0.001			SW846-6020	GEL	/ X /
Iron	0.263	mg/L			0.1			SW846-6020	GEL	/ X /
Lead	0.002	mg/L	U		0.002			SW846-6020	GEL	/ X /
Magnesium	39.8	mg/L			0.03			SW846-6020	GEL	/ X /
Manganese	0.0725	mg/L			0.005			SW846-6020	GEL	/ X /
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/ X /
Molybdenum	0.0005	mg/L	U		0.0005			SW846-6020	GEL	/ X /
Nickel	0.00319	mg/L			0.002			SW846-6020	GEL	/ X /
Phosphorous	2.54	mg/L	B		0.05			EPA-365.4	GEL	/ X /
Potassium	7.69	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	UN		0.005			SW846-6020	GEL	/ X /
Silver	0.001	mg/L	U		0.001			SW846-6020	GEL	/ X /
Sodium	79.3	mg/L			2.5			SW846-6020	GEL	/ X /
Tantalum	0.005	mg/L	UN		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	0.00426	mg/L			0.0002			SW846-6020	GEL	/ X /
Vanadium	0.01	mg/L	U		0.01			SW846-6020	GEL	/ X /
Zinc	0.01	mg/L	U		0.01			SW846-6020	GEL	/ X /
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020	GEL	/ X /

Paducah OREIS Report for USL17-02

Arsenic, Dissolved	0.00282	mg/L	J	0.005			SW846-6020	GEL	/ X /
Barium, Dissolved	0.0959	mg/L		0.002			SW846-6020	GEL	/ X /
Cadmium, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/ X /
Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/ X /
Cobalt, Dissolved	0.0004	mg/L	J	0.001			SW846-6020	GEL	/ X /
Copper, Dissolved	0.000454	mg/L	J	0.001			SW846-6020	GEL	/ X /
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020	GEL	/ X /
Manganese, Dissolved	0.0657	mg/L		0.005			SW846-6020	GEL	/ X /
Nickel, Dissolved	0.00266	mg/L		0.002			SW846-6020	GEL	/ X /
Selenium, Dissolved	0.005	mg/L	UN	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	0.00431	mg/L		0.0002			SW846-6020	GEL	/ X /
Vanadium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/ X /
Zinc, Dissolved	0.00379	mg/L	J	0.01			SW846-6020	GEL	/ X /

OTHOR

Oil and Grease	7.03	mg/L		4.5			EPA-1664A	GEL	/ X /
----------------	------	------	--	-----	--	--	-----------	-----	-------

PCCB

PCB-1016	0.098	ug/L	U	0.098			SW846-8082	GEL	/ X /
PCB-1221	0.098	ug/L	U	0.098			SW846-8082	GEL	/ X /
PCB-1232	0.098	ug/L	U	0.098			SW846-8082	GEL	/ X /
PCB-1242	0.098	ug/L	U	0.098			SW846-8082	GEL	/ X /
PCB-1248	0.098	ug/L	U	0.098			SW846-8082	GEL	/ X /
PCB-1254	0.098	ug/L	U	0.098			SW846-8082	GEL	/ X /
PCB-1260	0.098	ug/L	U	0.098			SW846-8082	GEL	/ X /
PCB-1268	0.098	ug/L	U	0.098			SW846-8082	GEL	/ X /
Polychlorinated biphenyl	0.098	ug/L	U	0.098			SW846-8082	GEL	/ X /

RADS

Alpha activity	2.37	pCi/L	U	13.7	6.98	7	SW846-9310	GEL	/ X /
Americium-241	0.0791	pCi/L	U	0.842	0.439	0.44	HASL 300, AM-05-RC M	GEL	/ X /
Beta activity	0.47	pCi/L	U	7.87	4.14	4.14	SW846-9310	GEL	/ X /
Cesium-137	0.53	pCi/L	U	2.39	1.3	1.32	EPA-901.1	GEL	/ X /
Cobalt-60	-0.274	pCi/L	U	1.99	1.1	1.11	EPA-901.1	GEL	/ X /
Dissolved Alpha	1.03	pCi/L	U	13.4	6.16	6.17	SW846-9310	GEL	/ X /
Dissolved Beta	3.7	pCi/L	U	11.2	6.44	6.48	SW846-9310	GEL	/ X /
Neptunium-237	0.282	pCi/L	U	1.03	0.648	0.648	Alpha Spectroscopy	GEL	/ X /
Plutonium-239/240	0.44	pCi/L	U	1.32	1.24	1.24	HASL 300, Pu-11-RC M	GEL	/ X /
Radium-226	-0.0496	pCi/L	U	0.565	0.224	0.224	AN-1418	GEL	/ X /
Strontium-90	0.781	pCi/L	U	2.84	1.57	1.58	EPA-905.0-M	GEL	/ X /
Technetium-99	8.15	pCi/L	U	18.9	11.2	11.2	HASL 300, Tc-02-RC M	GEL	/ X /
Thorium-230	0.428	pCi/L	U	1.67	0.954	0.965	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-234	-20.5	pCi/L	U	44	35.3	36.8	EPA-901.1	GEL	/ X /
Total Uranium	1.55	pCi/L	U	1.7	1.33	1.34	HASL 300, U-02-RC M	GEL	/ X /
Tritium	-46.3	pCi/L	U	239	136	136	EPA-906.0-M	GEL	/ X /
Uranium-234	0.231	pCi/L	U	1.1	0.636	0.637	HASL 300, U-02-RC M	GEL	/ X /
Uranium-235	0	pCi/L	U	0.669	0.45	0.451	HASL 300, U-02-RC M	GEL	/ X /
Uranium-238	1.31	pCi/L	U	1.1	1.07	1.09	HASL 300, U-02-RC M	GEL	/ X /

RADS-D

Americium-241, Dissolved	0.359	pCi/L	U	0.539	0.616	0.618	HASL 300, AM-05-RC M	GEL	/ X /
Cesium-137, Dissolved	0.206	pCi/L	U	6.24	3.34	3.34	EPA-901.1	GEL	/ X /
Cobalt-60, Dissolved	-0.0236	pCi/L	U	6.78	3.45	3.45	EPA-901.1	GEL	/ X /
Neptunium-237, Dissolved	-0.0865	pCi/L	U	0.998	0.382	0.383	Alpha Spectroscopy	GEL	/ X /

Paducah OREIS Report for USL17-02

Plutonium-239/240, Dissolved	0.0122	pCi/L	U	1.24	0.563	0.563	HASL 300, Pu-11-RC M	GEL	/ X /
Technetium-99, Dissolved	-0.822	pCi/L	U	19.5	11.2	11.2	HASL 300, Tc-02-RC M	GEL	/ X /
Thorium-230, Dissolved	-0.136	pCi/L	U	1.79	0.714	0.716	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-234, Dissolved	86.8	pCi/L	U	217	236	237	EPA-901.1	GEL	/ X /
Total Uranium, Dissolved	1.04	pCi/L	U	1.67	1.13	1.13	HASL 300, U-02-RC M	GEL	/ X /
Uranium-234, Dissolved	0.442	pCi/L	U	1.11	0.715	0.717	HASL 300, U-02-RC M	GEL	/ X /
Uranium-235, Dissolved	0	pCi/L	U	0.585	0.393	0.394	HASL 300, U-02-RC M	GEL	/ X /
Uranium-238, Dissolved	0.6	pCi/L	U	1.11	0.779	0.783	HASL 300, U-02-RC M	GEL	/ X /

SVOA

1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624	GEL	/ X /
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624	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	0.0195	ug/L	U	0.0195			SW846-8011	GEL	/ X /
1,2-Dibromoethane	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 /
2-Butanone	11.6	ug/L		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	73.6	ug/L		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 /

Paducah OREIS Report for USL17-02

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

Carbonaceous Biochemical Oxygen Demand (CBOD)	36.4	mg/L		24	SM-5210 B 17	GEL	/ X /
Chemical Oxygen Demand (COD)	89.8	mg/L		20	EPA-410.4	GEL	/ X /
Cyanide	0.005	mg/L	U	0.005	SW846-9012B	GEL	/ X /
Dissolved Solids	723	mg/L	B	14.3	EPA-160.1	GEL	/ X /
Hardness - Total as CaCO3	418	mg/L		2	EPA-130.2	GEL	/ X /
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/ X /
Suspended Solids	12	mg/L		6.25	EPA-160.2	GEL	/ X /
Total Organic Carbon (TOC)	10.3	mg/L		5	SW846-9060A	GEL	/ X /
Total Organic Halides (TOX)	4.86	ug/L	J	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)

Page 1 of 1

WASTE ACTIVITY—CONTAINED LANDFILL

Facility Name: U.S. Department of Energy Permit Number SW07300045
 County where landfill is located: McCracken (PGDP) Agency Interest Number: 3059
 Report for the Months of: July, August, September 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 (July)	0.00	111.31	0.00	0.00
Paducah Gaseous Diffusion Plant (August)	0.00	0.00	0.00	0.00
Paducah Gaseous Diffusion Plant (September)	0.00	131.71	0.00	0.00
Total for this page	0.00	243.02	0.00	0.00
Grand Total of all pages	0.00	243.02	0.00	0.00

***Grand Total of Municipal, Industrial, and Special from all pages** 243.02

***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: *Myrna E. Redfield* Phone Number (270) 441-5113
 Name—Please Print: Myrna E. Redfield Date: 10/6/17
 Signature: *Jennifer Woodard* Phone Number (270) 441-6800
 Name—Please Print: Jennifer Woodard Date: 10/6/2017

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).

THIS PAGE INTENTIONALLY LEFT BLANK