



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

RECEIVED
By Terri.Drake at 8:59 am, Apr 18, 2022

April 13, 2022

Ms. Jamie Nielsen, 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-02-10020893-22B

Dear Ms. Nielsen:

**C-746-S&T AND C-746-U SOLID WASTE LANDFILLS FIRST QUARTER
CALENDAR YEAR 2022 WASTE OPERATING REPORT, PADUCAH GASEOUS
DIFFUSION PLANT, PADUCAH, KENTUCKY, FRNP-RPT-0241/V1, SOLID WASTE
PERMIT NO. SW07300014, SW07300015, SW07300045, AGENCY INTEREST NO. 3059**

The U.S. Department of Energy has prepared the first quarter operating report for calendar year 2022 for the C-746-S&T Landfills and the C-746-U Landfill at the Paducah Gaseous Diffusion Plant. Kentucky Solid Waste Regulation 401 KAR 47:190 § 8(1) and Solid Waste Permit No. SW07300014, SW07300015, SW07300045, Permit Condition ACTV0006, Special Condition 10, require submittal of quarterly reports from operators of solid waste landfills.

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

If you have any questions or require additional information, please contact David Dollins at (270) 441-6819.

Sincerely,

**Tracey L.
Duncan**

Digitally signed by
Tracey L. Duncan
Date: 2022.04.13
13:02:03 -05'00'

Tracey Duncan
Acting Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosures:

1. Certification Page
2. *C-746-S&T and C-746-U Solid Waste Landfills First Quarter Calendar Year 2022 Waste Operating Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, FRNP-RPT-0241/V1*

cc w/enclosures:

abigail.parish@pppo.gov, PPPO
april.ladd@pppo.gov, PPPO
brian.begley@ky.gov, KDEP
bruce.ford@pad.pppo.gov, FRNP
christopher.travis@ky.gov, KDEP
dave.dollins@pppo.gov, PPPO
dennis.greene@pad.pppo.gov, FRNP
frnpcorrespondence@pad.pppo.gov
gary.corrigan@pad.pppo.gov, FRNP
gary.hines@pad.pppo.gov, FRNP
jennifer.woodard@pppo.gov, PPPO
joel.bradburne@pppo.gov, PPPO
jolie.fleming@pad.pppo.gov, FRNP
leo.williamson@ky.gov, KDEP
lisa.crabtree@pad.pppo.gov, FRNP
myrna.redfield@pad.pppo.gov, FRNP
pad.rmc@pad.pppo.gov
tammy.smith@pad.pppo.gov, FRNP
tracey.duncan@pppo.gov, PPPO

cc via KY eForms portal:

danny.anderson@ky.gov, KDEP
jamie.nielsen@ky.gov, KDEP
teresa.osborne@ky.gov, KDEP

CERTIFICATION

Document Identification: *C-746-S&T and C-746-U Solid Waste Landfills First Quarter Calendar Year 2022 Waste Operating Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, FRNP-RPT-0241/V1, Solid Waste Permit SW07300014, SW07300015, SW07300045, Agency Interest No. 3059, April 2022*

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.

Four Rivers Nuclear Partnership, LLC
Permittee (Operator)

Myrna E. Redfield

Digitally signed by Myrna E. Redfield
Date: 2022.04.13 15:19:22 -05'00'

Myrna E. Redfield, Program Manager
Four Rivers Nuclear Partnership, LLC

Date Signed

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.

U.S. Department of Energy

Tracey L. Duncan

Digitally signed by Tracey L. Duncan
Date: 2022.04.13 15:23:37 -05'00'

Tracey Duncan, Acting Paducah Site Lead
Portsmouth/Paducah Project Office
U.S. Department of Energy

Date Signed

FRNP-RPT-0241/V1

**C-746-S&T and C-746-U Solid Waste Landfills
First Quarter Calendar Year 2022
Waste Operating Report
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky**



This document is approved for public release per review by:


FRNP Classification Support

4-12-22
Date

**C-746-S&T and C-746-U Solid Waste Landfills
First Quarter Calendar Year 2022
Waste Operating Report
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky**

Date Issued—April 2022

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

THIS PAGE INTENTIONALLY LEFT BLANK

CONTENTS

REPORT SUMMARY.....	v
FACILITY INFORMATION SHEET.....	1
COVER LOG.....	3
LEACHATE LOG.....	9
LEACHATE ANALYTICAL RESULTS.....	21

THIS PAGE INTENTIONALLY LEFT BLANK

REPORT SUMMARY

The information contained herein is submitted in accordance with the requirements of Solid Waste Permit Number SW07300014, SW07300015, SW07300045, and 401 KAR 47:190 § 8(1)(a) through (c) and (e), for the first quarter of calendar year 2022 for the Paducah Gaseous Diffusion Plant, McCracken County, Kentucky.

In the first quarter of calendar year 2022, a total of 795.14 tons of industrial waste was disposed of in the C-746-U Contained Landfill. There were 8.78 tons of asbestos-containing materials disposed of as part of the 795.14 total tons of waste dispositioned. No special waste or spill-residue-containing materials were disposed of in the landfill this quarter. As directed by the Cabinet, the Waste Quantity Report, DEP-7046-Q, is submitted as a separate report.

Due to inclement weather conditions, the C-746-U Contained Landfill was closed on February 3, 2022, and February 24, 2022.

Analytical results for surface water monitoring, groundwater monitoring, 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)].

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.

Leachate Collection and Disposition

The leachate is primarily stored in five holding tanks (F-001, F-002, F-007, F-008, and F-009) with a total capacity of 104,200 gal. In the event that leachate cannot be managed solely with the primary tanks, 64,000 gal of additional storage capacity is available in reserve tanks F-010, F-011, F-012, and F-013. Tank F-004 is a 2,500-gal surge tank for the leachate treatment system. Storage tanks F-005 and F-006 were removed from service in 2014. The total leachate storage capacity is 170,700 gal.

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. A total of 427,400 gal of leachate from the C-746-U Landfill was treated at the C-746-U15 Leachate Treatment Facility this quarter. A total of 6,000 gal of leachate from the C-746-S Landfill was treated at the C-746-U15 Leachate Treatment Facility this quarter. There was no leachate transported to the other treatment facilities.

Annual leachate samples were collected on February 8, 2022, from the C-746-S Landfill and the C-746-U Landfill. The leachate was sampled and tested in accordance with the conditions described in the Solid Waste Permit issued May 21, 2021.

Construction Activities and Cover Maintenance

There were no construction or cover maintenance activities associated with the C-746-S&T Landfills [401 KAR 47:190 § 8(1)(a)]. The C-746-S&T 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.

There were no construction or cover maintenance 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.

FACILITY INFORMATION SHEET

Sampling Date: February 8, 2022

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, Joel Bradburne, Manager Phone No.: (859) 219-4000

Contact Person: Gary Hines Phone No.: (270) 816-4164
Landfill Manager,

Contact Person Title: 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: Jason Boulton Phone No.: (270) 441-6756

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

COVER LOG

THIS PAGE INTENTIONALLY LEFT BLANK

CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY
 COUNTY: McCracken

PERMIT NUMBER: 073-00045
 Month & Year: January 2022

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	E1	YES	NO	NO	NO	YES
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31	E1	YES	NO	NO	NO	YES

CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY
 COUNTY: McCracken

PERMIT NUMBER: 073-00045
 Month & Year: February 2022

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1	E1	YES	NO	NO	NO	YES
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY

PERMIT NUMBER: 073-00045

COUNTY: McCracken

Month & Year: March 2022

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1	E1	YES	NO	NO	NO	YES
2	E1	YES	NO	NO	NO	YES
3	E1	YES	NO	NO	NO	YES
4						
5						
6						
7						
8						
9						
10	E1	YES	NO	NO	NO	YES
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29	E1	YES	NO	NO	NO	YES
30						
31						

THIS PAGE INTENTIONALLY LEFT BLANK

LEACHATE LOG

THIS PAGE INTENTIONALLY LEFT BLANK

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month January

Year 2022

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
1-03-22	1,2,3,4,5,6,7	F-001		29800	10500	L
1-03-22	1,2,3,4,5,6,7	F-002		3700		
1-03-22	1,2,3,4,5,6,7	F-007		1200		
1-03-22	1,2,3,4,5,6,7	F-008		1200		
1-03-22	1,2,3,4,5,6,7	F-009		700		
1-04-22	1,2,3,4,5,6,7	F-001		19300	9600	L
1-04-22	1,2,3,4,5,6,7	F-002		11900		
1-04-22	1,2,3,4,5,6,7	F-007		1200		
1-04-22	1,2,3,4,5,6,7	F-008		1200		
1-04-22	1,2,3,4,5,6,7	F-009		700		
1-05-22	1,2,3,4,5,6,7	F-001		9700	8700	L
1-05-22	1,2,3,4,5,6,7	F-002		18200		
1-05-22	1,2,3,4,5,6,7	F-007		1200		
1-05-22	1,2,3,4,5,6,7	F-008		1200		
1-05-22	1,2,3,4,5,6,7	F-009		700		
1-06-22	1,2,3,4,5,6,7	F-001		1000		
1-06-22	1,2,3,4,5,6,7	F-002		22600	11600	L
1-06-22	1,2,3,4,5,6,7	F-007		1200		
1-06-22	1,2,3,4,5,6,7	F-008		1200		
1-06-22	1,2,3,4,5,6,7	F-009		700		
1-10-22	1,2,3,4,5,6,7	F-001		30000	9600	L
1-10-22	1,2,3,4,5,6,7	F-002		11900		
1-10-22	1,2,3,4,5,6,7	F-007		1200		
1-10-22	1,2,3,4,5,6,7	F-008		1200		
1-10-22	1,2,3,4,5,6,7	F-009		700		
1-11-22	1,2,3,4,5,6,7	F-001		20400	9100	L
1-11-22	1,2,3,4,5,6,7	F-002		20700		

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month January

Year 2022

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
1-11-22	1,2,3,4,5,6,7	F-007		1200		
1-11-22	1,2,3,4,5,6,7	F-008		1200		
1-11-22	1,2,3,4,5,6,7	F-009		700		
1-12-22	1,2,3,4,5,6,7	F-001		11300	10300	L
1-12-22	1,2,3,4,5,6,7	F-002		27100		
1-12-22	1,2,3,4,5,6,7	F-007		1200		
1-12-22	1,2,3,4,5,6,7	F-008		1200		
1-12-22	1,2,3,4,5,6,7	F-009		700		
1-13-22	1,2,3,4,5,6,7	F-001		1000		
1-13-22	1,2,3,4,5,6,7	F-002		28700	7700	L
1-13-22	1,2,3,4,5,6,7	F-007		1200		
1-13-22	1,2,3,4,5,6,7	F-008		1200		
1-13-22	1,2,3,4,5,6,7	F-009		700		
1-18-22	1,2,3,4,5,6,7	F-001		23700	9500	L
1-18-22	1,2,3,4,5,6,7	F-002		21000		
1-18-22	1,2,3,4,5,6,7	F-007		1200		
1-18-22	1,2,3,4,5,6,7	F-008		1200		
1-18-22	1,2,3,4,5,6,7	F-009		700		
1-19-22	1,2,3,4,5,6,7	F-001		14200	9400	L
1-19-22	1,2,3,4,5,6,7	F-002		24200		
1-19-22	1,2,3,4,5,6,7	F-007		1200		
1-19-22	1,2,3,4,5,6,7	F-008		1200		
1-19-22	1,2,3,4,5,6,7	F-009		700		
1-20-22	1,2,3,4,5,6,7	F-001		4800		
1-20-22	1,2,3,4,5,6,7	F-002		27100		
1-20-22	1,2,3,4,5,6,7	F-007		1200		

No measurements were taken on 1/17/2022 due to company holiday

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month January

Year 2022

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
1-20-22	1,2,3,4,5,6,7	F-009		700		
1-24-22	1,2,3,4,5,6,7	F-001		15900		
1-24-22	1,2,3,4,5,6,7	F-002		27100	10100	L
1-24-22	1,2,3,4,5,6,7	F-007		1200		
1-24-22	1,2,3,4,5,6,7	F-008		1200		
1-24-22	1,2,3,4,5,6,7	F-009		700		
1-25-22	1,2,3,4,5,6,7	F-001		18500		
1-25-22	1,2,3,4,5,6,7	F-002		17000	9700	L
1-25-22	1,2,3,4,5,6,7	F-007		1200		
1-25-22	1,2,3,4,5,6,7	F-008		1200		
1-25-22	1,2,3,4,5,6,7	F-009		700		
1-26-22	1,2,3,4,5,6,7	F-001		19900		
1-26-22	1,2,3,4,5,6,7	F-002		7300		
1-26-22	1,2,3,4,5,6,7	F-007		1200		
1-26-22	1,2,3,4,5,6,7	F-008		1200		
1-26-22	1,2,3,4,5,6,7	F-009		700		
1-27-22	1,2,3,4,5,6,7	F-001		22900		
1-27-22	1,2,3,4,5,6,7	F-002		7300		
1-27-22	1,2,3,4,5,6,7	F-007		1200		
1-27-22	1,2,3,4,5,6,7	F-008		1200		
1-27-22	1,2,3,4,5,6,7	F-009		700		
1-31-22	1,2,3,4,5,6,7	F-001		30000	11800	L
1-31-22	1,2,3,4,5,6,7	F-002		8300		
1-31-22	1,2,3,4,5,6,7	F-007		1200		
1-31-22	1,2,3,4,5,6,7	F-008		1200		
1-31-22	1,2,3,4,5,6,7	F-009		700		
			<i>Jimmy Smith</i>	<i>1-31-22</i>		

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2022

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
2-01-22	1,2,3,4,5,6,7	F-001		18200	12900	L
2-01-22	1,2,3,4,5,6,7	F-002		9700		
2-01-22	1,2,3,4,5,6,7	F-007		1200		
2-01-22	1,2,3,4,5,6,7	F-008		1200		
2-01-22	1,2,3,4,5,6,7	F-009		700		
2-02-22	1,2,3,4,5,6,7	F-001		5300		
2-02-22	1,2,3,4,5,6,7	F-002		12200	10300	L
2-02-22	1,2,3,4,5,6,7	F-007		1200		
2-02-22	1,2,3,4,5,6,7	F-008		1200		
2-02-22	1,2,3,4,5,6,7	F-009		700		
2-07-22	1,2,3,4,5,6,7	F-001		25700	11800	L
2-07-22	1,2,3,4,5,6,7	F-002		1900		
2-07-22	1,2,3,4,5,6,7	F-007		1200		
2-07-22	1,2,3,4,5,6,7	F-008		1200		
2-07-22	1,2,3,4,5,6,7	F-009		700		
2-08-22	1,2,3,4,5,6,7	F-001		13900	12700	L
2-08-22	1,2,3,4,5,6,7	F-002		7000		
2-08-22	1,2,3,4,5,6,7	F-007		1200		
2-08-22	1,2,3,4,5,6,7	F-008		1200		
2-08-22	1,2,3,4,5,6,7	F-009		700		
2-09-22	1,2,3,4,5,6,7	F-001		1200		
2-09-22	1,2,3,4,5,6,7	F-002		13600	11200	L
2-09-22	1,2,3,4,5,6,7	F-007		1200		
2-09-22	1,2,3,4,5,6,7	F-008		1200		
2-09-22	1,2,3,4,5,6,7	F-009		700		
2-10-22	1,2,3,4,5,6,7	F-001		8300		

No measurements were taken on February 3rd due to implementation of reduced operating posture as a result of inclement weather conditions

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2022

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
2-10-22	1,2,3,4,5,6,7	F-002		2400		
2-10-22	1,2,3,4,5,6,7	F-007		1200		
2-10-22	1,2,3,4,5,6,7	F-008		1200		
2-10-22	1,2,3,4,5,6,7	F-009		700		
2-14-22	1,2,3,4,5,6,7	F-001		28300	13000	L
2-14-22	1,2,3,4,5,6,7	F-002		2400		
2-14-22	1,2,3,4,5,6,7	F-007		1200		
2-14-22	1,2,3,4,5,6,7	F-008		1200		
2-14-22	1,2,3,4,5,6,7	F-009		700		
2-15-22	1,2,3,4,5,6,7	F-001		15300	13200	L
2-15-22	1,2,3,4,5,6,7	F-002		6800		
2-15-22	1,2,3,4,5,6,7	F-007		1200		
2-15-22	1,2,3,4,5,6,7	F-008		1200		
2-15-22	1,2,3,4,5,6,7	F-009		700		
2-16-22	1,2,3,4,5,6,7	F-001		2100		
2-16-22	1,2,3,4,5,6,7	F-002		11000		
2-16-22	1,2,3,4,5,6,7	F-007		1200		
2-16-22	1,2,3,4,5,6,7	F-008		1200		
2-16-22	1,2,3,4,5,6,7	F-009		700		
2-17-22	1,2,3,4,5,6,7	F-001		2100		
2-17-22	1,2,3,4,5,6,7	F-002		13600	11200	L
2-17-22	1,2,3,4,5,6,7	F-007		1200		
2-17-22	1,2,3,4,5,6,7	F-008		1200		
2-17-22	1,2,3,4,5,6,7	F-009		700		
2-21-22	1,2,3,4,5,6,7	F-001		30100	14200	L
2-21-22	1,2,3,4,5,6,7	F-002		28700		
2-21-22	1,2,3,4,5,6,7	F-007		1200		

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2022

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
3-01-22	1,2,3,4,5,6,7	F-001		21800		
3-01-22	1,2,3,4,5,6,7	F-002		30000	14700	L
3-01-22	1,2,3,4,5,6,7	F-007		1200		
3-01-22	1,2,3,4,5,6,7	F-008		1200		
3-01-22	1,2,3,4,5,6,7	F-009		700		
3-02-22	1,2,3,4,5,6,7	F-001		25200	13600	L
3-02-22	1,2,3,4,5,6,7	F-002		19600		
3-02-22	1,2,3,4,5,6,7	F-007		1200		
3-02-22	1,2,3,4,5,6,7	F-008		1200		
3-02-22	1,2,3,4,5,6,7	F-009		700		
3-03-22	1,2,3,4,5,6,7	F-001		11600	10200	L
3-03-22	1,2,3,4,5,6,7	F-002		24400		
3-03-22	1,2,3,4,5,6,7	F-007		1200		
3-03-22	1,2,3,4,5,6,7	F-008		1200		
3-03-22	1,2,3,4,5,6,7	F-009		700		
3-07-22	1,2,3,4,5,6,7	F-001		16800		
3-07-22	1,2,3,4,5,6,7	F-002		24700	12500	L
3-07-22	1,2,3,4,5,6,7	F-007		1200		
3-07-22	1,2,3,4,5,6,7	F-008		1200		
3-07-22	1,2,3,4,5,6,7	F-009		700		
3-08-22	1,2,3,4,5,6,7	F-001		22100		
3-08-22	1,2,3,4,5,6,7	F-002		12200	9600	L
3-08-22	1,2,3,4,5,6,7	F-007		1200		
3-08-22	1,2,3,4,5,6,7	F-008		1200		
3-08-22	1,2,3,4,5,6,7	F-009		700		
3-09-22	1,2,3,4,5,6,7	F-001		23700	11500	L
3-09-22	1,2,3,4,5,6,7	F-002		5500		

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2022

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
3-09-22	1,2,3,4,5,6,7	F-007		1200		
3-09-22	1,2,3,4,5,6,7	F-008		1200		
3-09-22	1,2,3,4,5,6,7	F-009		700		
3-10-22	1,2,3,4,5,6,7	F-001		12200	7900	L
3-10-22	1,2,3,4,5,6,7	F-002		9400		
3-10-22	1,2,3,4,5,6,7	F-007		1200		
3-10-22	1,2,3,4,5,6,7	F-008		1200		
3-10-22	1,2,3,4,5,6,7	F-009		700		
3-14-22	1,2,3,4,5,6,7	F-001		4300		
3-14-22	1,2,3,4,5,6,7	F-002		24900	13300	L
3-14-22	1,2,3,4,5,6,7	F-007		1200		
3-14-22	1,2,3,4,5,6,7	F-008		1200		
3-14-22	1,2,3,4,5,6,7	F-009		700		
3-15-22	1,2,3,4,5,6,7	F-001		7800		
3-15-22	1,2,3,4,5,6,7	F-002		11600	9200	L
3-15-22	1,2,3,4,5,6,7	F-007		1200		
3-15-22	1,2,3,4,5,6,7	F-008		1200		
3-15-22	1,2,3,4,5,6,7	F-009		700		
3-16-22	1,2,3,4,5,6,7	F-001		10500		
3-16-22	1,2,3,4,5,6,7	F-002		2400		
3-16-22	1,2,3,4,5,6,7	F-007		1200		
3-16-22	1,2,3,4,5,6,7	F-008		1200		
3-16-22	1,2,3,4,5,6,7	F-009		700		
3-17-22	1,2,3,4,5,6,7	F-001		11900		
3-17-22	1,2,3,4,5,6,7	F-002		2400		
3-17-22	1,2,3,4,5,6,7	F-007		1200		
3-17-22	1,2,3,4,5,6,7	F-008		1200		

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2022

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
3-17-22	1,2,3,4,5,6,7	F-009		700		
3-21-22	1,2,3,4,5,6,7	F-001		11900		
3-21-22	1,2,3,4,5,6,7	F-002		13000	10800	L
3-21-22	1,2,3,4,5,6,7	F-007		1200		
3-21-22	1,2,3,4,5,6,7	F-008		1200		
3-21-22	1,2,3,4,5,6,7	F-009		700		
3-22-22	1,2,3,4,5,6,7	F-001		14500	12800	L
3-22-22	1,2,3,4,5,6,7	F-002		2200		
3-22-22	1,2,3,4,5,6,7	F-007		1200		
3-22-22	1,2,3,4,5,6,7	F-008		1200		
3-22-22	1,2,3,4,5,6,7	F-009		700		
3-23-22	1,2,3,4,5,6,7	F-001		1700		
3-23-22	1,2,3,4,5,6,7	F-002		6800	4400	L
3-23-22	1,2,3,4,5,6,7	F-007		1200		
3-23-22	1,2,3,4,5,6,7	F-008		1200		
3-23-22	1,2,3,4,5,6,7	F-009		700		
3-24-22	1,2,3,4,5,6,7	F-001		6800		
3-24-22	1,2,3,4,5,6,7	F-002		2400		
3-24-22	1,2,3,4,5,6,7	F-007		1200		
3-24-22	1,2,3,4,5,6,7	F-008		1200		
3-24-22	1,2,3,4,5,6,7	F-009		700		
3-28-22	1,2,3,4,5,6,7	F-001		19900	14400	L
3-28-22	1,2,3,4,5,6,7	F-002		2400		
3-28-22	1,2,3,4,5,6,7	F-007		1200		
3-28-22	1,2,3,4,5,6,7	F-008		1200		
3-28-22	1,2,3,4,5,6,7	F-009		700		
3-29-22	1,2,3,4,5,6,7	F-001		5500		

LEACHATE ANALYTICAL RESULTS

THIS PAGE INTENTIONALLY LEFT BLANK

Paducah OREIS Report for SLS22-01

SLS22-01-01

from: C-746-S

on 2/8/2022

Media: WW

SmpMethod: GR

Comments: Leachate Cell 2 sample

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			SW846-9056A	GEL	/X/
Chloride	6.21	mg/L	JW		250			SW846-9056A	GEL	/X/
Fluoride	0.681	mg/L	J		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	10	mg/L	U		10			SW846-9056A	GEL	/X/
Sulfate	24.7	mg/L	W		0.8			SW846-9056A	GEL	/X/
FS										
Conductivity	974	umho/cm						FS	FS	//
Dissolved Oxygen	2.64	mg/L						FS	FS	//
pH	6.78	Std Unit						FS	FS	//
Redox	430	mV						FS	FS	//
Temperature	46.1	deg F						FS	FS	//
METAL										
Aluminum	0.0526	mg/L	*		0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Barium	0.299	mg/L			0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020B	GEL	/X/
Boron	0.0316	mg/L			0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	177	mg/L			4			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Copper	0.000462	mg/L	J		0.002			SW846-6020B	GEL	/X/
Iron	0.165	mg/L			0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	24.7	mg/L			0.03			SW846-6020B	GEL	/X/
Manganese	0.0213	mg/L			0.005			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.000992	mg/L	J		0.001			SW846-6020B	GEL	/X/
Nickel	0.00173	mg/L	J		0.002			SW846-6020B	GEL	/X/
Phosphorous	0.0352	mg/L	J		0.05			EPA-365.4	GEL	/X/
Potassium	0.754	mg/L			0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Sodium	41.5	mg/L			0.25			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.0034	mg/L			0.0002			SW846-6020B	GEL	/X/
Vanadium	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
Zinc	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic, Dissolved	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Barium, Dissolved	0.297	mg/L			0.004			SW846-6020B	GEL	/X/
Cadmium, Dissolved	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Chromium, Dissolved	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/

Paducah OREIS Report for SLS22-01

Cobalt, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Copper, Dissolved	0.000779	mg/L	J	0.002			SW846-6020B	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020B	GEL	/X/
Manganese, Dissolved	0.0201	mg/L		0.005			SW846-6020B	GEL	/X/
Nickel, Dissolved	0.0017	mg/L	J	0.002			SW846-6020B	GEL	/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Uranium, Dissolved	0.00337	mg/L		0.0002			SW846-6020B	GEL	/X/
Vanadium, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/X/
Zinc, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/X/

OTHOR

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

PCCB

PCB-1016	0.0989	ug/L	U	0.0989			SW846-8082A	GEL	/X/
PCB-1221	0.0989	ug/L	U	0.0989			SW846-8082A	GEL	/X/
PCB-1232	0.0989	ug/L	U	0.0989			SW846-8082A	GEL	/X/
PCB-1242	0.0989	ug/L	U	0.0989			SW846-8082A	GEL	/X/
PCB-1248	0.0989	ug/L	U	0.0989			SW846-8082A	GEL	/X/
PCB-1254	0.0989	ug/L	U	0.0989			SW846-8082A	GEL	/X/
PCB-1260	0.0989	ug/L	U	0.0989			SW846-8082A	GEL	/X/
PCB-1268	0.0989	ug/L	U	0.0989			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0989	ug/L	U	0.0989			SW846-8082A	GEL	/X/

RADS

Alpha activity	3.95	pCi/L	U	10	5.71	5.74	SW846-9310	GEL	/X/
Americium-241	0.121	pCi/L	U	2.65	1.27	1.27	HASL 300, Am-05-RC	GEL	/X/
Beta activity	0.368	pCi/L	U	7.79	4.06	4.06	SW846-9310	GEL	/X/
Cesium-137	-0.267	pCi/L	U	2.01	1.2	1.2	EPA-901.1	GEL	/X/
Cobalt-60	0.479	pCi/L	U	2.27	1.4	1.42	EPA-901.1	GEL	/X/
Dissolved Alpha	1.37	pCi/L	U	2.86	1.73	1.74	SW846-9310	GEL	/X/
Dissolved Beta	1.82	pCi/L	U	2.7	1.65	1.68	SW846-9310	GEL	/X/
Neptunium-237	-0.341	pCi/L	U	1.67	0.695	0.695	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	-0.156	pCi/L	U	1.79	0.688	0.689	HASL 300, Pu-11-RC	MGEL	/X/
Radium-226	0.702	pCi/L	U	3.05	1.69	1.69	AN-1418	GEL	/X/
Radium-228	-0.146	pCi/L	U	3.89	2.06	2.06	EPA-904-M	GEL	/X/
Strontium-90	-0.217	pCi/L	U	4.85	2.54	2.54	EPA-905.0-M	GEL	/X/
Technetium-99	5.22	pCi/L	U	19.2	11.3	11.3	HASL 300, Tc-02-RC	MGEL	/X/
Thorium-230	0.198	pCi/L	U	3.14	1.52	1.52	HASL 300, Th-01-RC	MGEL	/X/
Thorium-232	0.617	pCi/L	U	1.92	1.3	1.3	HASL 300, Th-01-RC	MGEL	/X/
Thorium-234	7.58	pCi/L	U	42.4	42.6	42.8	EPA-901.1	GEL	/X/
Tritium	-17.5	pCi/L	U	274	159	159	EPA-906.0-M	GEL	/X/
Uranium	2.38	pCi/L	U	4.69	2.82	2.83	HASL 300, U-02-RC	MGEL	/X/
Uranium-234	0.0547	pCi/L	U	3.45	1.62	1.62	HASL 300, U-02-RC	MGEL	/X/
Uranium-235	0.324	pCi/L	U	2.05	1.22	1.22	HASL 300, U-02-RC	MGEL	/X/
Uranium-238	2	pCi/L	U	2.42	1.95	1.97	HASL 300, U-02-RC	MGEL	/X/

RADS-D

Americium-241, Dissolved	-0.0812	pCi/L	U	2.85	1.22	1.22	HASL 300, Am-05-RC	GEL	/X/
Cesium-137, Dissolved	1.18	pCi/L	U	8.98	4.46	4.49	EPA-901.1	GEL	/X/
Cobalt-60, Dissolved	3.09	pCi/L	U	12.4	5.59	5.76	EPA-901.1	GEL	/X/
Neptunium-237, Dissolved	-0.342	pCi/L	U	2.01	0.854	0.854	ASTM-1475-00M	GEL	/X/
Plutonium-239/240, Dissolved	0.16	pCi/L	U	1.7	0.888	0.889	HASL 300, Pu-11-RC	MGEL	/X/
Technetium-99, Dissolved	-3.75	pCi/L	U	17.5	10.1	10.1	HASL 300, Tc-02-RC	MGEL	/X/
Thorium-230, Dissolved	1.19	pCi/L	U	2.33	1.51	1.53	HASL 300, Th-01-RC	MGEL	/X/
Thorium-234, Dissolved	205	pCi/L	U	327	359	362	EPA-901.1	GEL	/X/

Paducah OREIS Report for SLS22-01

Uranium, Dissolved	1.29	pCi/L	U	3.39	2.09	2.1	HASL 300, U-02-RC MGEL	/X/
Uranium-234, Dissolved	0.438	pCi/L	U	2.53	1.36	1.36	HASL 300, U-02-RC MGEL	/X/
Uranium-235, Dissolved	0	pCi/L	U	1.25	0.841	0.843	HASL 300, U-02-RC MGEL	/X/
Uranium-238, Dissolved	0.85	pCi/L	U	1.87	1.35	1.36	HASL 300, U-02-RC MGEL	/X/

VOA

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0194	ug/L	U	0.0194			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
2-Butanone	5	ug/L	U	5			EPA-624.1	GEL	/X/
2-Hexanone	5	ug/L	U	5			EPA-624.1	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624.1	GEL	/X/
Acetone	5	ug/L	U	5			EPA-624.1	GEL	/X/
Acrolein	5	ug/L	U	5			EPA-624.1	GEL	/X/
Acrylonitrile	5	ug/L	U	5			EPA-624.1	GEL	/X/
Benzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromoform	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromomethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Carbon disulfide	5	ug/L	U	5			EPA-624.1	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chloroform	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Dibromomethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Ethylbenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Iodomethane	5	ug/L	U	5			EPA-624.1	GEL	/X/
m,p-Xylene	2	ug/L	U	2			EPA-624.1	GEL	/X/
Methylene chloride	2	ug/L	U	2			EPA-624.1	GEL	/X/
Styrene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Toluene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Total Xylene	3	ug/L	U	3			EPA-624.1	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U	5			EPA-624.1	GEL	/X/
Trichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Vinyl acetate	5	ug/L	U	5			EPA-624.1	GEL	/X/
Vinyl chloride	1	ug/L	U	1			EPA-624.1	GEL	/X/

WETCHEM

Paducah OREIS Report for SLS22-01

Carbonaceous Biochemical Oxygen Demand (CBOD)	2.49	mg/L		2	SM-5210 B	GEL	/ X /
Chemical Oxygen Demand (COD)	11.4	mg/L	J	20	EPA-410.4	GEL	S / X /
Cyanide	0.2	mg/L	U	0.2	SW846-9012B	GEL	/ X /
Dissolved Solids	611	mg/L		14.3	EPA-160.1	GEL	/ X /
Hardness - Total as CaCO3	452	mg/L		2	EPA-130.2	GEL	/ X /
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/ X /
Suspended Solids	2.6	mg/L	U	2.6	EPA-160.2	GEL	/ X /
Total Organic Carbon (TOC)	3.9	mg/L		2	SW846-9060A	GEL	/ X /
Total Organic Halides (TOX)	22.4	ug/L		10	SW846-9020B	GEL	/ X /

Paducah OREIS Report for SLS22-01

SLS22-01-02

from: C-746-S

on 2/8/2022

Media: WW

SmpMethod: GR

Comments: Leachate Cell 3 sample

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
ANION										
Bromide	0.0776	mg/L	J		0.2			SW846-9056A	GEL	/X/
Chloride	24.2	mg/L	JW		250			SW846-9056A	GEL	/X/
Fluoride	0.231	mg/L	J		4			SW846-9056A	GEL	S/X/
Nitrate as Nitrogen	10	mg/L	U		10			SW846-9056A	GEL	/X/
Sulfate	0.564	mg/L	W		0.4			SW846-9056A	GEL	S/X/
FS										
Conductivity	1153	umho/cm						FS	FS	//
Dissolved Oxygen	23	mg/L						FS	FS	//
pH	6.36	Std Unit						FS	FS	//
Redox	174	mV						FS	FS	//
Temperature	47.2	deg F						FS	FS	//
METAL										
Aluminum	0.05	mg/L	U*		0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Barium	0.523	mg/L			0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020B	GEL	/X/
Boron	0.0371	mg/L			0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	139	mg/L			4			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Copper	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Iron	74	mg/L			2			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	24.7	mg/L			0.03			SW846-6020B	GEL	/X/
Manganese	1.12	mg/L			0.1			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Nickel	0.000692	mg/L	J		0.002			SW846-6020B	GEL	/X/
Phosphorous	0.271	mg/L			0.05			EPA-365.4	GEL	/X/
Potassium	4.67	mg/L			0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Sodium	33.5	mg/L			0.25			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.000119	mg/L	J		0.0002			SW846-6020B	GEL	S/X/
Vanadium	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
Zinc	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic, Dissolved	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Barium, Dissolved	0.374	mg/L			0.004			SW846-6020B	GEL	/X/
Cadmium, Dissolved	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Chromium, Dissolved	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/

Paducah OREIS Report for SLS22-01

Cobalt, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Copper, Dissolved	0.00066	mg/L	J	0.002			SW846-6020B	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020B	GEL	/X/
Manganese, Dissolved	1.1	mg/L		0.1			SW846-6020B	GEL	/X/
Nickel, Dissolved	0.000842	mg/L	J	0.002			SW846-6020B	GEL	/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Uranium, Dissolved	0.000265	mg/L		0.0002			SW846-6020B	GEL	S /X/
Vanadium, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/X/
Zinc, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/X/

OTHOR

Oil and Grease	4.39	mg/L	U	4.39			EPA-1664A	GEL	/X/
----------------	------	------	---	------	--	--	-----------	-----	-----

PCCB

PCB-1016	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1221	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1232	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1242	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1248	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1254	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1260	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1268	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/

RADS

Alpha activity	1.97	pCi/L	U	13.3	6.68	6.69	SW846-9310	GEL	/X/
Americium-241	0.198	pCi/L	U	2.11	1.1	1.1	HASL 300, Am-05-RC	GEL	/X/
Beta activity	-8.46	pCi/L	U	24.1	12.7	12.7	SW846-9310	GEL	/X/
Cesium-137	0.692	pCi/L	U	1.76	0.974	1.03	EPA-901.1	GEL	/X/
Cobalt-60	0.309	pCi/L	U	1.71	0.914	0.925	EPA-901.1	GEL	/X/
Dissolved Alpha	1.26	pCi/L	U	2.97	1.73	1.74	SW846-9310	GEL	/X/
Dissolved Beta	6.15	pCi/L	U	2.4	1.89	2.15	SW846-9310	GEL	/X/
Neptunium-237	-0.215	pCi/L	U	1.84	0.835	0.835	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	-0.172	pCi/L	U	1.96	0.78	0.78	HASL 300, Pu-11-RC	MGEL	/X/
Radium-226	0.229	pCi/L	U	3.02	1.48	1.48	AN-1418	GEL	/X/
Radium-228	2.27	pCi/L	U	3.75	2.28	2.36	EPA-904-M	GEL	/X/
Strontium-90	0.076	pCi/L	U	5.43	2.85	2.85	EPA-905.0-M	GEL	/X/
Technetium-99	-3.27	pCi/L	U	18.5	10.7	10.7	HASL 300, Tc-02-RC	MGEL	/X/
Thorium-230	0.187	pCi/L	U	3.43	1.66	1.66	HASL 300, Th-01-RC	MGEL	/X/
Thorium-232	0.317	pCi/L	U	1.49	1.01	1.02	HASL 300, Th-01-RC	MGEL	/X/
Thorium-234	-14.4	pCi/L	U	47.8	36.7	37.4	EPA-901.1	GEL	/X/
Tritium	-157	pCi/L	U	275	157	157	EPA-906.0-M	GEL	/X/
Uranium	2.17	pCi/L	U	5.34	3.05	3.06	HASL 300, U-02-RC	MGEL	/X/
Uranium-234	1.38	pCi/L	U	3.22	2.08	2.09	HASL 300, U-02-RC	MGEL	/X/
Uranium-235	0.794	pCi/L	U	2.89	1.82	1.83	HASL 300, U-02-RC	MGEL	/X/
Uranium-238	-0.186	pCi/L	U	3.13	1.28	1.29	HASL 300, U-02-RC	MGEL	/X/

RADS-D

Americium-241, Dissolved	0.0165	pCi/L	U	2.72	1.22	1.23	HASL 300, Am-05-RC	GEL	/X/
Cesium-137, Dissolved	0.114	pCi/L	U	8.09	4.87	4.87	EPA-901.1	GEL	/X/
Cobalt-60, Dissolved	0.849	pCi/L	U	9.51	4.59	4.6	EPA-901.1	GEL	/X/
Neptunium-237, Dissolved	-0.0722	pCi/L	U	1.63	0.768	0.768	ASTM-1475-00M	GEL	/X/
Plutonium-239/240, Dissolved	0.639	pCi/L	U	2.13	1.26	1.26	HASL 300, Pu-11-RC	MGEL	/X/
Technetium-99, Dissolved	-12.5	pCi/L	U	22.5	12.7	12.7	HASL 300, Tc-02-RC	MGEL	/X/
Thorium-230, Dissolved	-1.13	pCi/L	U	3.94	1.37	1.38	HASL 300, Th-01-RC	MGEL	/X/
Thorium-234, Dissolved	-56.1	pCi/L	U	385	225	227	EPA-901.1	GEL	/X/

Paducah OREIS Report for SLS22-01

Uranium, Dissolved	0.583	pCi/L	U	5.03	2.42	2.43	HASL 300, U-02-RC MGEL	/ X /
Uranium-234, Dissolved	-0.107	pCi/L	U	3.32	1.48	1.48	HASL 300, U-02-RC MGEL	/ X /
Uranium-235, Dissolved	0.121	pCi/L	U	2.64	1.27	1.27	HASL 300, U-02-RC MGEL	/ X /
Uranium-238, Dissolved	0.462	pCi/L	U	2.71	1.45	1.45	HASL 300, U-02-RC MGEL	/ X /

VOA

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1,1-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1,2-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2,3-Trichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dibromo-3-chloropropane	0.0192	ug/L	U	0.0192			SW846-8011	GEL	/ X /
1,2-Dibromoethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dimethylbenzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,4-Dichlorobenzene	1.87	ug/L		1			EPA-624.1	GEL	/ X /
2-Butanone	5	ug/L	U	5			EPA-624.1	GEL	/ X /
2-Hexanone	5	ug/L	U	5			EPA-624.1	GEL	/ X /
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Acetone	4.45	ug/L	J	5			EPA-624.1	GEL	/ X /
Acrolein	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Acrylonitrile	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Benzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Bromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Bromodichloromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Bromoform	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Bromomethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Carbon disulfide	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Carbon tetrachloride	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Chlorobenzene	1.75	ug/L		1			EPA-624.1	GEL	/ X /
Chloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Chloroform	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Chloromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
cis-1,2-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
cis-1,3-Dichloropropene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Dibromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Dibromomethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Ethylbenzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Iodomethane	5	ug/L	U	5			EPA-624.1	GEL	/ X /
m,p-Xylene	2	ug/L	U	2			EPA-624.1	GEL	/ X /
Methylene chloride	2	ug/L	U	2			EPA-624.1	GEL	/ X /
Styrene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Tetrachloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Toluene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Total Xylene	3	ug/L	U	3			EPA-624.1	GEL	/ X /
trans-1,2-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
trans-1,3-Dichloropropene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Trans-1,4-Dichloro-2-butene	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Trichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Trichlorofluoromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Vinyl acetate	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Vinyl chloride	1	ug/L	U	1			EPA-624.1	GEL	/ X /

WETCHEM

Paducah OREIS Report for SLS22-01

Carbonaceous Biochemical Oxygen Demand (CBOD)	8.25	mg/L		6	SM-5210 B	GEL	/ X /
Chemical Oxygen Demand (COD)	30.8	mg/L		20	EPA-410.4	GEL	/ X /
Cyanide	0.2	mg/L	U	0.2	SW846-9012B	GEL	/ X /
Dissolved Solids	549	mg/L		14.3	EPA-160.1	GEL	/ X /
Hardness - Total as CaCO3	463	mg/L		5	EPA-130.2	GEL	/ X /
Iodide	1.36	mg/L		0.5	EPA-300.0	GEL	/ X /
Suspended Solids	81	mg/L		25	EPA-160.2	GEL	/ X /
Total Organic Carbon (TOC)	7.95	mg/L		2	SW846-9060A	GEL	/ X /
Total Organic Halides (TOX)	29.4	ug/L		10	SW846-9020B	GEL	/ X /

Paducah OREIS Report for SLS22-01

FBSLS22-01

from: QC

on 2/8/2022

Media: WQ

SmpMethod:

Comments:

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			SW846-9056A	GEL	/X/
Chloride	0.303	mg/L	JW		250			SW846-9056A	GEL	/X/
Fluoride	4	mg/L	U		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	10	mg/L	U		10			SW846-9056A	GEL	/X/
Sulfate	0.4	mg/L	UW		0.4			SW846-9056A	GEL	/X/
METAL										
Aluminum	0.05	mg/L	U*		0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Barium	0.004	mg/L	U		0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020B	GEL	/X/
Boron	0.0154	mg/L			0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	0.2	mg/L	U		0.2			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Copper	0.00685	mg/L			0.002			SW846-6020B	GEL	/X/
Iron	0.1	mg/L	U		0.1			SW846-6020B	GEL	/X/
Lead	0.00229	mg/L			0.002			SW846-6020B	GEL	/X/
Magnesium	0.03	mg/L	U		0.03			SW846-6020B	GEL	/X/
Manganese	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Nickel	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Phosphorous	0.05	mg/L	U		0.05			EPA-365.4	GEL	/X/
Potassium	0.3	mg/L	U		0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Sodium	0.25	mg/L	U		0.25			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.0002	mg/L	U		0.0002			SW846-6020B	GEL	/X/
Vanadium	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
Zinc	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
OTHOR										
Oil and Grease	4.27	mg/L	U		4.27			EPA-1664A	GEL	/X/
PPCB										
PCB-1016	0.0988	ug/L	U		0.0988			SW846-8082A	GEL	/X/
PCB-1221	0.0988	ug/L	U		0.0988			SW846-8082A	GEL	/X/
PCB-1232	0.0988	ug/L	U		0.0988			SW846-8082A	GEL	/X/
PCB-1242	0.0988	ug/L	U		0.0988			SW846-8082A	GEL	/X/
PCB-1248	0.0988	ug/L	U		0.0988			SW846-8082A	GEL	/X/
PCB-1254	0.0988	ug/L	U		0.0988			SW846-8082A	GEL	/X/
PCB-1260	0.0988	ug/L	U		0.0988			SW846-8082A	GEL	/X/
PCB-1268	0.0988	ug/L	U		0.0988			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0988	ug/L	U		0.0988			SW846-8082A	GEL	/X/

Paducah OREIS Report for SLS22-01

RADS

Alpha activity	-0.567	pCi/L	U	7.56	2.83	2.84	SW846-9310	GEL	/X/
Americium-241	-0.228	pCi/L	U	2.63	1.01	1.01	HASL 300, Am-05-RC	GEL	/X/
Beta activity	-5.13	pCi/L	U	16.1	8.43	8.43	SW846-9310	GEL	/X/
Cesium-137	-0.314	pCi/L	U	1.27	0.724	0.738	EPA-901.1	GEL	/X/
Cobalt-60	0.512	pCi/L	U	1.3	0.696	0.735	EPA-901.1	GEL	/X/
Neptunium-237	-0.795	pCi/L	U	1.98	0.761	0.761	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	-0.494	pCi/L	U	3.06	1.12	1.12	HASL 300, Pu-11-RC	MGEL	/X/
Radium-226	-0.906	pCi/L	U	3.28	0.946	0.947	AN-1418	GEL	/X/
Radium-228	1.38	pCi/L	U	3.37	1.96	1.99	EPA-904-M	GEL	/X/
Strontium-90	1.53	pCi/L	U	4.95	2.8	2.81	EPA-905.0-M	GEL	/X/
Technetium-99	-4.39	pCi/L	U	18.7	10.7	10.7	HASL 300, Tc-02-RC	MGEL	/X/
Thorium-230	1.9	pCi/L	U	4.13	2.58	2.6	HASL 300, Th-01-RC	MGEL	/X/
Thorium-232	0.357	pCi/L	U	1.64	1.13	1.13	HASL 300, Th-01-RC	MGEL	/X/
Thorium-234	-2.17	pCi/L	U	41	35.8	35.8	EPA-901.1	GEL	/X/
Tritium	-123	pCi/L	U	280	161	161	EPA-906.0-M	GEL	/X/
Uranium	1.65	pCi/L	U	7.07	3.54	3.56	HASL 300, U-02-RC	MGEL	/X/
Uranium-234	-0.449	pCi/L	U	4.55	1.77	1.77	HASL 300, U-02-RC	MGEL	/X/
Uranium-235	-0.175	pCi/L	U	3.5	1.51	1.51	HASL 300, U-02-RC	MGEL	/X/
Uranium-238	1.65	pCi/L	U	4.14	2.67	2.69	HASL 300, U-02-RC	MGEL	/X/

VOA

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
2-Butanone	3.78	ug/L	J	5			EPA-624.1	GEL	/X/
2-Hexanone	5	ug/L	U	5			EPA-624.1	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624.1	GEL	/X/
Acetone	12.8	ug/L		5			EPA-624.1	GEL	/X/
Acrolein	5	ug/L	U	5			EPA-624.1	GEL	/X/
Acrylonitrile	5	ug/L	U	5			EPA-624.1	GEL	/X/
Benzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromoform	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromomethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Carbon disulfide	5	ug/L	U	5			EPA-624.1	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chloroform	2.75	ug/L		1			EPA-624.1	GEL	/X/
Chloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Dibromomethane	1	ug/L	U	1			EPA-624.1	GEL	/X/

Paducah OREIS Report for SLS22-01

Ethylbenzene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Iodomethane	5	ug/L	U	5	EPA-624.1	GEL	/X/
m,p-Xylene	2	ug/L	U	2	EPA-624.1	GEL	/X/
Methylene chloride	2	ug/L	U	2	EPA-624.1	GEL	/X/
Styrene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Tetrachloroethene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Toluene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Total Xylene	3	ug/L	U	3	EPA-624.1	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1	EPA-624.1	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U	5	EPA-624.1	GEL	/X/
Trichloroethene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1	EPA-624.1	GEL	/X/
Vinyl acetate	5	ug/L	U	5	EPA-624.1	GEL	/X/
Vinyl chloride	1	ug/L	U	1	EPA-624.1	GEL	/X/
WETCHEM							
Chemical Oxygen Demand (COD)	11.4	mg/L	J	20	EPA-410.4	GEL	/X/
Hardness - Total as CaCO3	6.35	mg/L		2	EPA-130.2	GEL	/X/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/X/
Total Organic Carbon (TOC)	0.715	mg/L	J	2	SW846-9060A	GEL	/X/

Paducah OREIS Report for SLS22-01

TBSLS22-01

from: QC

on 2/8/2022

Media: WQ

SmpMethod:

Comments:

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
VOA										
1,1,1,2-Tetrachloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1-Dichloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1-Dichloroethene	0.58	ug/L	J		1			EPA-624.1	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dibromo-3-chloropropane	0.019	ug/L	U		0.019			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dichloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dichloropropane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
2-Butanone	1.84	ug/L	J		5			EPA-624.1	GEL	/X/
2-Hexanone	5	ug/L	U		5			EPA-624.1	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U		5			EPA-624.1	GEL	/X/
Acetone	10.9	ug/L			5			EPA-624.1	GEL	/X/
Acrolein	5	ug/L	U		5			EPA-624.1	GEL	/X/
Acrylonitrile	5	ug/L	U		5			EPA-624.1	GEL	/X/
Benzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Bromochloromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Bromodichloromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Bromoform	1	ug/L	U		1			EPA-624.1	GEL	/X/
Bromomethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Carbon disulfide	5	ug/L	U		5			EPA-624.1	GEL	/X/
Carbon tetrachloride	1	ug/L	U		1			EPA-624.1	GEL	/X/
Chlorobenzene	2.26	ug/L			1			EPA-624.1	GEL	/X/
Chloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Chloroform	1	ug/L	U		1			EPA-624.1	GEL	/X/
Chloromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U		1			EPA-624.1	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Dibromochloromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Dibromomethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Ethylbenzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Iodomethane	5	ug/L	U		5			EPA-624.1	GEL	/X/
m,p-Xylene	2	ug/L	U		2			EPA-624.1	GEL	/X/
Methylene chloride	2	ug/L	U		2			EPA-624.1	GEL	/X/
Styrene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Tetrachloroethene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Toluene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Total Xylene	3	ug/L	U		3			EPA-624.1	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U		1			EPA-624.1	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U		5			EPA-624.1	GEL	/X/
Trichloroethene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Trichlorofluoromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Vinyl acetate	5	ug/L	U		5			EPA-624.1	GEL	/X/
Vinyl chloride	1	ug/L	U		1			EPA-624.1	GEL	/X/

Paducah OREIS Report for SLS22-01

Paducah OREIS Report for ULS22-01

ULS22-01-01

from: C-746-U

on 2/8/2022

Media: WW

SmpMethod: GR

Comments: Sample taken from tank F001. CH 2-8-22

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
ANION										
Bromide	1	mg/L	U		1			SW846-9056A	GEL	/X/
Chloride	39	mg/L	JW		4			SW846-9056A	GEL	/X/
Fluoride	0.558	mg/L	J		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	4.72	mg/L	J		10			SW846-9056A	GEL	/X/
Sulfate	232	mg/L	W		8			SW846-9056A	GEL	/X/
FS										
Conductivity	1187	umho/cm						FS	FS	//
Dissolved Oxygen	10.83	mg/L						FS	FS	//
pH	7.92	Std Unit						FS	FS	//
Redox	422	mV						FS	FS	//
Temperature	49.2	deg F						FS	FS	//
METAL										
Aluminum	0.0841	mg/L	*		0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Barium	0.104	mg/L			0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020B	GEL	/X/
Boron	1.7	mg/L			0.3			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	137	mg/L			4			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.000691	mg/L	J		0.001			SW846-6020B	GEL	/X/
Copper	0.00103	mg/L	J		0.002			SW846-6020B	GEL	/X/
Iron	0.0819	mg/L	J		0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	36.5	mg/L			0.03			SW846-6020B	GEL	/X/
Manganese	0.0225	mg/L			0.005			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.00173	mg/L			0.001			SW846-6020B	GEL	/X/
Nickel	0.00343	mg/L			0.002			SW846-6020B	GEL	/X/
Phosphorous	0.0389	mg/L	J		0.05			EPA-365.4	GEL	/X/
Potassium	4.31	mg/L			0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Sodium	100	mg/L			5			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.139	mg/L			0.0002			SW846-6020B	GEL	/X/
Vanadium	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
Zinc	0.00767	mg/L	J		0.02			SW846-6020B	GEL	/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic, Dissolved	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Barium, Dissolved	0.103	mg/L			0.004			SW846-6020B	GEL	/X/
Cadmium, Dissolved	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Chromium, Dissolved	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/

Paducah OREIS Report for ULS22-01

Cobalt, Dissolved	0.000672	mg/L	J	0.001			SW846-6020B	GEL	/X/
Copper, Dissolved	0.00137	mg/L	J	0.002			SW846-6020B	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020B	GEL	/X/
Manganese, Dissolved	0.0203	mg/L		0.005			SW846-6020B	GEL	/X/
Nickel, Dissolved	0.00359	mg/L		0.002			SW846-6020B	GEL	/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Uranium, Dissolved	0.138	mg/L		0.0002			SW846-6020B	GEL	/X/
Vanadium, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/X/
Zinc, Dissolved	0.00736	mg/L	J	0.02			SW846-6020B	GEL	/X/

OTHOR

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

PCCB

PCB-1016	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
PCB-1221	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
PCB-1232	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
PCB-1242	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
PCB-1248	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
PCB-1254	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
PCB-1260	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
PCB-1268	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/

RADS

Alpha activity	55.5	pCi/L		11.7	16.6	19	SW846-9310	GEL	/X/
Americium-241	0.655	pCi/L	U	1.79	1.29	1.29	HASL 300, Am-05-RC	GEL	/X/
Beta activity	60.8	pCi/L		12.8	12	15.9	SW846-9310	GEL	/X/
Cesium-137	0.452	pCi/L	U	1.15	0.613	0.648	EPA-901.1	GEL	/X/
Cobalt-60	-0.074	pCi/L	U	1.11	0.606	0.607	EPA-901.1	GEL	/X/
Dissolved Alpha	19.5	pCi/L		2.98	4.62	5.65	SW846-9310	GEL	/X/
Dissolved Beta	19.7	pCi/L		2.62	2.66	4.19	SW846-9310	GEL	/X/
Neptunium-237	-0.236	pCi/L	U	1.48	0.648	0.648	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	0.48	pCi/L	U	1.31	0.943	0.945	HASL 300, Pu-11-RC	MGEL	/X/
Radium-226	0.804	pCi/L	U	2.68	1.59	1.59	AN-1418	GEL	/X/
Radium-228	0.047	pCi/L	U	3.64	1.9	1.9	EPA-904-M	GEL	/X/
Strontium-90	3.5	pCi/L	U	5.84	3.54	3.59	EPA-905.0-M	GEL	/X/
Technetium-99	19.5	pCi/L		18.2	11.1	11.3	HASL 300, Tc-02-RC	MGEL	/X/
Thorium-230	-0.85	pCi/L	U	5.39	2.35	2.35	HASL 300, Th-01-RC	MGEL	/X/
Thorium-232	-0.239	pCi/L	U	2.34	0.864	0.865	HASL 300, Th-01-RC	MGEL	/X/
Thorium-234	0	pCi/L	UX	32	47.5	49.8	EPA-901.1	GEL	/X/
Tritium	-12.4	pCi/L	U	271	158	158	EPA-906.0-M	GEL	/X/
Uranium	44.3	pCi/L		3.66	6.82	8.32	HASL 300, U-02-RC	MGEL	/X/
Uranium-234	6.49	pCi/L		2.24	2.72	2.86	HASL 300, U-02-RC	MGEL	/X/
Uranium-235	0.722	pCi/L	U	1.94	1.28	1.28	HASL 300, U-02-RC	MGEL	/X/
Uranium-238	37.1	pCi/L		2.15	6.12	7.71	HASL 300, U-02-RC	MGEL	/X/

RADS-D

Americium-241, Dissolved	0.36	pCi/L	U	5.47	2.67	2.67	HASL 300, Am-05-RC	GEL	/X/
Cesium-137, Dissolved	1.01	pCi/L	U	7.95	4.14	4.16	EPA-901.1	GEL	/X/
Cobalt, Dissolved	2	pCi/L	U	8.74	3.83	3.94	EPA-901.1	GEL	/X/
Neptunium-237, Dissolved	-0.00553	pCi/L	U	1.33	0.643	0.643	ASTM-1475-00M	GEL	/X/
Plutonium-239/240, Dissolved	0.743	pCi/L	U	3.52	1.96	1.96	HASL 300, Pu-11-RC	MGEL	/X/
Technetium-99, Dissolved	18.3	pCi/L		18.1	11	11.2	HASL 300, Tc-02-RC	MGEL	/X/
Thorium-230, Dissolved	1.72	pCi/L	U	3.37	2.22	2.24	HASL 300, Th-01-RC	MGEL	/X/
Thorium-234, Dissolved	153	pCi/L	U	299	202	216	EPA-901.1	GEL	/X/

Paducah OREIS Report for ULS22-01

Uranium, Dissolved	50.7	pCi/L		4.5	8.08	9.73	HASL 300, U-02-RC MGEL	/ X /
Uranium-234, Dissolved	10.6	pCi/L		3.14	3.85	4.12	HASL 300, U-02-RC MGEL	/ X /
Uranium-235, Dissolved	0.972	pCi/L	U	2.14	1.54	1.55	HASL 300, U-02-RC MGEL	/ X /
Uranium-238, Dissolved	39.1	pCi/L		2.42	6.93	8.68	HASL 300, U-02-RC MGEL	/ X /

VOA

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1,1-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1,2-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,1-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2,3-Trichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dibromo-3-chloropropane	0.0193	ug/L	U	0.0193			SW846-8011	GEL	/ X /
1,2-Dibromoethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,2-Dimethylbenzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
2-Butanone	5	ug/L	U	5			EPA-624.1	GEL	/ X /
2-Hexanone	5	ug/L	U	5			EPA-624.1	GEL	/ X /
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Acetone	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Acrolein	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Acrylonitrile	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Benzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Bromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Bromodichloromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Bromoform	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Bromomethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Carbon disulfide	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Carbon tetrachloride	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Chlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Chloroethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Chloroform	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Chloromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
cis-1,2-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
cis-1,3-Dichloropropene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Dibromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Dibromomethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Ethylbenzene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Iodomethane	5	ug/L	U	5			EPA-624.1	GEL	/ X /
m,p-Xylene	2	ug/L	U	2			EPA-624.1	GEL	/ X /
Methylene chloride	2	ug/L	U	2			EPA-624.1	GEL	/ X /
Styrene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Tetrachloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Toluene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Total Xylene	3	ug/L	U	3			EPA-624.1	GEL	/ X /
trans-1,2-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
trans-1,3-Dichloropropene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Trans-1,4-Dichloro-2-butene	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Trichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Trichlorofluoromethane	1	ug/L	U	1			EPA-624.1	GEL	/ X /
Vinyl acetate	5	ug/L	U	5			EPA-624.1	GEL	/ X /
Vinyl chloride	1	ug/L	U	1			EPA-624.1	GEL	/ X /

WETCHEM

Paducah OREIS Report for ULS22-01

Carbonaceous Biochemical Oxygen Demand (CBOD)	3.17	mg/L		2	SM-5210 B	GEL	/X/
Chemical Oxygen Demand (COD)	11.4	mg/L	J	20	EPA-410.4	GEL	/X/
Cyanide	0.005	mg/L	U	0.005	SW846-9012B	GEL	/X/
Dissolved Solids	783	mg/L		14.3	EPA-160.1	GEL	/X/
Hardness - Total as CaCO3	426	mg/L		2	EPA-130.2	GEL	/X/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/X/
Suspended Solids	2	mg/L	J	5	EPA-160.2	GEL	/X/
Total Organic Carbon (TOC)	6.71	mg/L		2	SW846-9060A	GEL	/X/
Total Organic Halides (TOX)	49.4	ug/L		10	SW846-9020B	GEL	/X/

Paducah OREIS Report for ULS22-01

FBULS22-01

from: QC

on 2/8/2022

Media: WQ

SmpMethod:

Comments:

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			SW846-9056A	GEL	/X/
Chloride	0.297	mg/L	JW		250			SW846-9056A	GEL	/X/
Fluoride	4	mg/L	U		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	10	mg/L	U		10			SW846-9056A	GEL	/X/
Sulfate	0.4	mg/L	UW		0.4			SW846-9056A	GEL	/X/
METAL										
Aluminum	0.05	mg/L	U*		0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Barium	0.004	mg/L	U		0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020B	GEL	/X/
Boron	0.0232	mg/L			0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	0.64	mg/L			0.2			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Copper	0.00677	mg/L			0.002			SW846-6020B	GEL	/X/
Iron	0.1	mg/L	U		0.1			SW846-6020B	GEL	/X/
Lead	0.0023	mg/L			0.002			SW846-6020B	GEL	/X/
Magnesium	0.0168	mg/L	J		0.03			SW846-6020B	GEL	/X/
Manganese	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Nickel	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Phosphorous	0.0266	mg/L	J		0.05			EPA-365.4	GEL	/X/
Potassium	0.3	mg/L	U		0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Sodium	0.25	mg/L	U		0.25			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.0002	mg/L	U		0.0002			SW846-6020B	GEL	/X/
Vanadium	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
Zinc	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
OTHOR										
Oil and Grease	4.27	mg/L	U		4.27			EPA-1664A	GEL	/X/
PPCB										
PCB-1016	0.0974	ug/L	U		0.0974			SW846-8082A	GEL	/X/
PCB-1221	0.0974	ug/L	U		0.0974			SW846-8082A	GEL	/X/
PCB-1232	0.0974	ug/L	U		0.0974			SW846-8082A	GEL	/X/
PCB-1242	0.0974	ug/L	U		0.0974			SW846-8082A	GEL	/X/
PCB-1248	0.0974	ug/L	U		0.0974			SW846-8082A	GEL	/X/
PCB-1254	0.0974	ug/L	U		0.0974			SW846-8082A	GEL	/X/
PCB-1260	0.0974	ug/L	U		0.0974			SW846-8082A	GEL	/X/
PCB-1268	0.0974	ug/L	U		0.0974			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0974	ug/L	U		0.0974			SW846-8082A	GEL	/X/

Paducah OREIS Report for ULS22-01

RADS									
Alpha activity	3.58	pCi/L	U	7.44	4.46	4.5	SW846-9310	GEL	/X/
Americium-241	0.267	pCi/L	U	2.84	1.48	1.49	HASL 300, Am-05-RC	GEL	/X/
Beta activity	-0.0275	pCi/L	U	7.76	3.95	3.96	SW846-9310	GEL	/X/
Cesium-137	0.0473	pCi/L	U	1.14	0.636	0.636	EPA-901.1	GEL	/X/
Cobalt-60	-0.09	pCi/L	U	1.15	0.622	0.623	EPA-901.1	GEL	/X/
Neptunium-237	-0.428	pCi/L	U	1.28	0.414	0.414	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	-0.356	pCi/L	U	3.13	1.2	1.2	HASL 300, Pu-11-RC	MGEL	/X/
Radium-226	1.41	pCi/L	U	2.53	1.75	1.75	AN-1418	GEL	/X/
Radium-228	0.692	pCi/L	U	3.79	2.09	2.1	EPA-904-M	GEL	/X/
Strontium-90	0.801	pCi/L	U	6.89	3.64	3.64	EPA-905.0-M	GEL	/X/
Technetium-99	-1.88	pCi/L	U	17.9	10.4	10.4	HASL 300, Tc-02-RC	MGEL	/X/
Thorium-230	1.47	pCi/L	U	1.68	1.18	1.2	HASL 300, Th-01-RC	MGEL	/X/
Thorium-232	0.115	pCi/L	U	0.886	0.488	0.488	HASL 300, Th-01-RC	MGEL	/X/
Thorium-234	0.0992	pCi/L	U	37.9	36.6	36.6	EPA-901.1	GEL	/X/
Tritium	-10.7	pCi/L	U	278	162	162	EPA-906.0-M	GEL	/X/
Uranium	0	pCi/L	U	8.55	3.04	3.05	HASL 300, U-02-RC	MGEL	/X/
Uranium-234	-1.05	pCi/L	U	5.39	1.67	1.67	HASL 300, U-02-RC	MGEL	/X/
Uranium-235	-0.222	pCi/L	U	4.44	1.92	1.92	HASL 300, U-02-RC	MGEL	/X/
Uranium-238	-0.719	pCi/L	U	4.94	1.67	1.67	HASL 300, U-02-RC	MGEL	/X/

VOA									
1,1,1,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
2-Butanone	3.68	ug/L	J	5			EPA-624.1	GEL	/X/
2-Hexanone	5	ug/L	U	5			EPA-624.1	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624.1	GEL	/X/
Acetone	12.8	ug/L		5			EPA-624.1	GEL	/X/
Acrolein	5	ug/L	U	5			EPA-624.1	GEL	/X/
Acrylonitrile	5	ug/L	U	5			EPA-624.1	GEL	/X/
Benzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromoform	1	ug/L	U	1			EPA-624.1	GEL	/X/
Bromomethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Carbon disulfide	5	ug/L	U	5			EPA-624.1	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chlorobenzene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chloroethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Chloroform	2.85	ug/L		1			EPA-624.1	GEL	/X/
Chloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			EPA-624.1	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			EPA-624.1	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			EPA-624.1	GEL	/X/
Dibromomethane	1	ug/L	U	1			EPA-624.1	GEL	/X/

Paducah OREIS Report for ULS22-01

Ethylbenzene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Iodomethane	5	ug/L	U	5	EPA-624.1	GEL	/X/
m,p-Xylene	2	ug/L	U	2	EPA-624.1	GEL	/X/
Methylene chloride	0.55	ug/L	J	2	EPA-624.1	GEL	/X/
Styrene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Tetrachloroethene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Toluene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Total Xylene	3	ug/L	U	3	EPA-624.1	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1	EPA-624.1	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U	5	EPA-624.1	GEL	/X/
Trichloroethene	1	ug/L	U	1	EPA-624.1	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1	EPA-624.1	GEL	/X/
Vinyl acetate	5	ug/L	U	5	EPA-624.1	GEL	/X/
Vinyl chloride	1	ug/L	U	1	EPA-624.1	GEL	/X/
WETCHEM							
Chemical Oxygen Demand (COD)	20	mg/L	U	20	EPA-410.4	GEL	/X/
Hardness - Total as CaCO3	7.48	mg/L		2	EPA-130.2	GEL	/X/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/X/
Total Organic Carbon (TOC)	0.523	mg/L	J	2	SW846-9060A	GEL	/X/

Paducah OREIS Report for ULS22-01

TBULS22-01

from: QC

on 2/8/2022

Media: WQ

SmpMethod:

Comments:

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
VOA										
1,1,1,2-Tetrachloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1-Dichloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,1-Dichloroethene	0.54	ug/L	J		1			EPA-624.1	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0186	ug/L	U		0.0186			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dichloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dichloropropane	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
2-Butanone	2.34	ug/L	J		5			EPA-624.1	GEL	/X/
2-Hexanone	5	ug/L	U		5			EPA-624.1	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U		5			EPA-624.1	GEL	/X/
Acetone	11.5	ug/L			5			EPA-624.1	GEL	/X/
Acrolein	5	ug/L	U		5			EPA-624.1	GEL	/X/
Acrylonitrile	5	ug/L	U		5			EPA-624.1	GEL	/X/
Benzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Bromochloromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Bromodichloromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Bromoform	1	ug/L	U		1			EPA-624.1	GEL	/X/
Bromomethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Carbon disulfide	5	ug/L	U		5			EPA-624.1	GEL	/X/
Carbon tetrachloride	1	ug/L	U		1			EPA-624.1	GEL	/X/
Chlorobenzene	2.12	ug/L			1			EPA-624.1	GEL	/X/
Chloroethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Chloroform	0.35	ug/L	J		1			EPA-624.1	GEL	/X/
Chloromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U		1			EPA-624.1	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Dibromochloromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Dibromomethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Ethylbenzene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Iodomethane	5	ug/L	U		5			EPA-624.1	GEL	/X/
m,p-Xylene	2	ug/L	U		2			EPA-624.1	GEL	/X/
Methylene chloride	2	ug/L	U		2			EPA-624.1	GEL	/X/
Styrene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Tetrachloroethene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Toluene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Total Xylene	3	ug/L	U		3			EPA-624.1	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U		1			EPA-624.1	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U		5			EPA-624.1	GEL	/X/
Trichloroethene	1	ug/L	U		1			EPA-624.1	GEL	/X/
Trichlorofluoromethane	1	ug/L	U		1			EPA-624.1	GEL	/X/
Vinyl acetate	5	ug/L	U		5			EPA-624.1	GEL	/X/
Vinyl chloride	1	ug/L	U		1			EPA-624.1	GEL	/X/

Paducah OREIS Report for ULS22-01

Division of Waste Management
Solid Waste Branch
Quarterly Waste Quantity Report - DEP 7046-Q
Electronic Submittal

**This eForm is not applicable to Transfer stations or Convenience Centers. Those reports still need to be sent in the mail.

Agency/Site Information:

Agency Interest #(*) <input type="text" value="3059"/>	Facility Name <input type="text" value="Dept of Energy-Paducah Gaseous"/>	Report for the Months of(*) <input type="text" value="Jan, Feb, Mar"/>	Year(*) <input type="text" value="2022"/>
---	--	---	--

County where landfill is located: <input type="text" value="McCracken"/>	LandFill(*) <input type="text" value="Contained Landfill(ACTV6)/07300045"/>
---	--

CONTAINED LANDFILL

Editing the Grid: You may click in each cell to edit the value.
You may navigate the grid items by using the tab and arrow keys or you may press the enter key to enable editing of a cell.

	Waste Source	*Municipal Solid Waste	*Industrial Waste	*Special Waste	**Waste Used as Alternate Daily Cover As Approved	Delete
1	MCCRACKEN,KY	0	795.14	0	<input type="text" value="0"/>	Delete
+						

Sub total		795.14	
-----------	--	--------	--

Total tonnage: 795.14

Total Fee :	<input type="text" value="\$1,391.495"/>
--------------------	--

*Does not include waste used as Alternate Daily Cover.

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

For this calendar quarter, please check this box if no waste has been collected at the Solid Waste Disposal Facility.

Check this box if you elect to submit a check or money order instead of paying this fee online, or payment is not required for this activity type. Payments shall be made payable to the Kentucky State Treasurer, and mailed to:

Division of Waste Management
Solid Waste Branch
300 Sower Blvd., Second Floor
Frankfort, Kentucky 40601

Certification:

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:(*) <input type="text" value="Signature"/>		Pin(*) <input type="text" value="PIN"/>	Title:(*) <input type="text" value="Title"/>
First Name:(*) <input type="text" value="Myrna"/>	M.I.: <input type="text" value="E"/>	Last Name:(*) <input type="text" value="Redfield"/>	
eMail Address:(*) <input type="text" value="myrna.redfield@pad.pppo.gov"/>	Business Phone:(*) <input type="text" value="270-441-5113"/>	Alternate Phone: <input type="text" value="Phone"/>	Signature Date:(*) <input type="text" value="Date"/>
<input type="button" value="Click to Save Values for Future Retrieval"/>		<input type="button" value="Continue to Pre-Payment"/>	