Department of Energy

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

April 8, 2025

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-02-10032425-25

Dear Ms. Nielsen:

C-746-S&T AND C-746-U SOLID WASTE LANDFILLS FIRST QUARTER CALENDAR YEAR 2025 WASTE OPERATING REPORT, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, FRNP-RPT-0378/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 2025 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 Ryan Callihan at (740) 970-0255.

Sincerely,

APRIL LADD

Digitally signed by APRIL LADD
Date: 2025.04.08 14:22:39 -05'00'

April Ladd
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 2025 Waste Operating Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, FRNP-RPT-0378/V1

cc w/enclosures:
abigail.parish@pppo.gov, PPPO
april.ladd@pppo.gov, PPPO
april.webb@ky.gov, KDEP
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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 2025 Waste Operating Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, FRNP-RPT-0378/V1, Solid Waste Permit SW07300014, SW07300015, SW07300045, Agency Interest No. 3059, April 2025**

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 REDFIELD (Affiliate)
Digitally signed by MYRNA REDFIELD (Affiliate)
Date: 2025.04.03 15:26:55 -05'00'

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

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

APRIL LADD
Digitally signed by APRIL LADD
Date: 2025.04.08 14:23:03 -05'00'

April Ladd, Paducah Site Lead/Date Signed
Portsmouth/Paducah Project Office
U.S. Department of Energy

FRNP-RPT-0378/V1

C-746-S&T and C-746-U Solid Waste Landfills
First Quarter Calendar Year 2025
Waste Operating Report
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky

FOUR RIVERS
NUCLEAR PARTNERSHIP, LLC

CLEARED FOR PUBLIC RELEASE

C-746-S&T and C-746-U Solid Waste Landfills
First Quarter Calendar Year 2025
Waste Operating Report
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky

Date Issued—April 2025

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

CLEARED FOR PUBLIC RELEASE

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CONTENTS

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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, *Landfill Recordkeeping and Reporting*, for the first quarter of calendar year 2025 for the Paducah Gaseous Diffusion Plant, McCracken County, Kentucky.

In the first quarter of calendar year 2025, a total of 122.90 tons of industrial waste was disposed of in the C-746-U Contained Landfill. There were zero (0) tons of asbestos-containing materials disposed of as part of the 122.90 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.

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

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

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 572,900 gal of leachate from the C-746-U Contained Landfill was treated at the C-746-U15 Leachate Treatment Facility this quarter. A total of zero (0) gal of leachate from the C-746-S Residential Landfill was treated at the C-746-U15 Leachate Treatment Facility this quarter. There was no leachate transported to the other treatment facilities.

February 19, 2025, was an inclement weather day (snow) at the Paducah Site and the landfill was closed; therefore, no Daily Leachate Treatment System Operating Sheet was generated for that day.

Annual leachate samples were taken on February 4, 2025, from the C-746-S Residential Landfill and the C-746-U Contained Landfill, respectively. The leachate was sampled and tested in accordance with the conditions described in the solid waste permit issued on 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, *Landfill Recordkeeping and Reporting*]. The C-746-S&T Landfills were inspected for subsidence in accordance with the cover requirements [401 *KAR* 48:080 § 9, *Alternative Specifications*]. There were no repair events during the quarter at the C-746-S Residential Landfill.

There were no construction or cover maintenance activities at the C-746-U Contained Landfill [401 *KAR* 47:190 § 8, *Landfill Recordkeeping and Reporting*]. The landfill was inspected for subsidence in accordance with the cover requirements [401 *KAR* 48:080 § 9, *Alternative Specifications*]. No repairs were necessary during the quarter.

FACILITY INFORMATION SHEET

Sampling Date: February 4, 2025

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 (Street) Kevil, Kentucky (City/State) 42053 (Zip)

Phone No.: (270) 441-6800 Latitude: N 37˚ 07' 45″ Longitude: W 88˚ 47' 5″

OWNER INFORMATION

Facility Owner: U.S. DOE, Joel Bradburne, Manager Phone No.: (859) 219-4000

Contact Person: Todd L. Walker Phone No.: (270) 559-0937

Contact Person Title: Landfill Manager, Four Rivers Nuclear Partnership, LLC

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

SAMPLING PERSONNEL
(if other than landfill or laboratory)

Company: GEO Consultants, LLC

Contact Person: Rene Tucker Phone No. (270) 816-6041

Mailing Address: 325 Kentucky Avenue (Street) Kevil, Kentucky (City/State) 42053 (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 (Street) Charleston, South Carolina (City/State) 29417 (Zip)

LABORATORY RECORD #2

Laboratory: Not applicable (N/A) Lab ID No.: N/A

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

Mailing Address: N/A (Street) (City/State) (Zip)

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COVER LOG

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CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY

PERMIT NUMBER: 073-00045

COUNTY: McCracken

Month & Year: Jan: 2025

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1						
2						
3						
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5						
6						
7		There were no waste disposal activities during the month of January 2025				
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31						

CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY
COUNTY: McCracken

PERMIT NUMBER: 073-00045
Month & Year: Feb: 2025

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		There were no waste disposal activities during the month of February 2025				
8						
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CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY **PERMIT NUMBER:** 073-00045

COUNTY: McCracken **Month & Year:** Mar 2025

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1						
2						
3						
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5						
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24						
25	E6	YES	YES	NO	NO	YES
26	E6	YES	YES	NO	NO	YES
27						
28						
29						
30						
31						

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LEACHATE LOG

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

Permit No. 073-00045 McCracken County, Kentucky

Month January Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
1-2-25	1,2,3,4,5,6,7	F-001		15300	12300	L
1-2-25	1,2,3,4,5,6,7	F-002		11300	9600	L
1-2-25	1,2,3,4,5,6,7	F-007		12600		
1-2-25	1,2,3,4,5,6,7	F-008		12400		
1-2-25	1,2,3,4,5,6,7	F-008		15,100		
1-6-25	1,2,3,4,5,6,7	F-001		11000		
1-6-25	1,2,3,4,5,6,7	F-002		27900	12300	L
1-6-25	1,2,3,4,5,6,7	F-007		12600		
1-6-25	1,2,3,4,5,6,7	F-008		12400		
1-6-25	1,2,3,4,5,6,7	F-009		15100		
1-7-25	1,2,3,4,5,6,7	F-001		21000		
1-7-25	1,2,3,4,5,6,7	F-002		15600	12100	L
1-7-25	1,2,3,4,5,6,7	F-007		12600		
1-7-25	1,2,3,4,5,6,7	F-008		12400		
1-7-25	1,2,3,4,5,6,7	F-009		15100		
1-8-25	1,2,3,4,5,6,7	F-001		27900	11400	L
1-8-25	1,2,3,4,5,6,7	F-002		4300		
1-8-25	1,2,3,4,5,6,7	F-007		12600		
1-8-25	1,2,3,4,5,6,7	F-008		12400		
1-8-25	1,2,3,4,5,6,7	F-009		15100		
1-9-25	1,2,3,4,5,6,7	F-001		16500		
1-9-25	1,2,3,4,5,6,7	F-002		11600		
1-9-25	1,2,3,4,5,6,7	F-007		12600		
1-9-25	1,2,3,4,5,6,7	F-008		12400		
1-9-25	1,2,3,4,5,6,7	F-009		15100	8300	L
1-13-25	1,2,3,4,5,6,7	F-001		21000		
1-13-25	**1,2,3,4,5,6,7**	F-002		27900	26200	L

CP3-WM-0018-F01 FRev. 1

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

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

Permit No. 073-00045

McCracken County, Kentucky

Month January Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
1-13-25	1,2,3,4,5,6,7	F-007		12600		
1-13-25	1,2,3,4,5,6,7	F-008		12400		
1-13-25	1,2,3,4,5,6,7	F-009		6800		
1-14-25	1,2,3,4,5,6,7	F-001		25900	24200	L
1-14-25	1,2,3,4,5,6,7	F-002		1700		
1-14-25	1,2,3,4,5,6,7	F-007		12600		
1-14-25	1,2,3,4,5,6,7	F-008		12400		
1-14-25	1,2,3,4,5,6,7	F-009		6800		
1-15-25	1,2,3,4,5,6,7	F-001		1700		
1-15-25	1,2,3,4,5,6,7	F-002		7500		
1-15-25	1,2,3,4,5,6,7	F-007		12600		
1-15-25	1,2,3,4,5,6,7	F-008		12400		
1-15-25	1,2,3,4,5,6,7	F-009		6800	5200	L
1-16-25	1,2,3,4,5,6,7	F-001		1700		
1-16-25	1,2,3,4,5,6,7	F-002		12200	9600	L
1-16-25	1,2,3,4,5,6,7	F-007		12600		
1-16-25	1,2,3,4,5,6,7	F-008		12400		
1-16-25	1,2,3,4,5,6,7	F-009		1600		
1-21-25	1,2,3,4,5,6,7	F-001		2800		
1-21-25	1,2,3,4,5,6,7	F-002		23100		
1-21-25	1,2,3,4,5,6,7	F-007		12600		
1-21-25	1,2,3,4,5,6,7	F-008		12400		
1-21-25	1,2,3,4,5,6,7	F-009		1600		
1-22-25	1,2,3,4,5,6,7	F-001		2800		
1-22-25	1,2,3,4,5,6,7	F-002		27900		
1-22-25	1,2,3,4,5,6,7	F-007		12600		
1-22-25	**1,2,3,4,5,6,7**	F-008		12400		

CP3-WM-0018-F01 FRev. 1

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

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

Permit No. 073-00045 McCracken County, Kentucky

Month January Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
1-22-25	1,2,3,4,5,6,7	F-009		1600		
1-23-25	1,2,3,4,5,6,7	F-001		6500		
1-23-25	1,2,3,4,5,6,7	F-002		27900		
1-23-25	1,2,3,4,5,6,7	F-007		12600		
1-23-25	1,2,3,4,5,6,7	F-008		12400		
1-23-25	1,2,3,4,5,6,7	F-009		1600		
1-27-25	1,2,3,4,5,6,7	F-001		19600		
1-27-25	1,2,3,4,5,6,7	F002		27900	11700	L
1-27-25	1,2,3,4,5,6,7	F-007		12600		
1-27-25	1,2,3,4,5,6,7	F-008		12400		
1-27-25	1,2,3,4,5,6,7	F-009		1600		
1-28-25	1,2,3,4,5,6,7	F-001		22300		
1-28-25	1,2,3,4,5,6,7	F-002		16200	13000	L
1-28-25	1,2,3,4,5,6,7	F-007		12600		
1-28-25	1,2,3,4,5,6,7	F-008		12400		
1-28-25	1,2,3,4,5,6,7	F-009		1600		
1-29-25	1,2,3,4,5,6,7	F-001		25900	11400	L
1-29-25	1,2,3,4,5,6,7	F-002		3200		
1-29-25	1,2,3,4,5,6,7	F-007		12600		
1-29-25	1,2,3,4,5,6,7	F-008		12400		
1-29-25	1,2,3,4,5,6,7	F-009		1600		
1-30-25	1,2,3,4,5,6,7	F-001		14500	12600	L
1-30-25	1,2,3,4,5,6,7	F-002		5800		
1-30-25	1,2,3,4,5,6,7	F-007		12600		
1-30-25	1,2,3,4,5,6,7	F-008		12400		
1-30-25	1,2,3,4,5,6,7	F-009		1600		
		RBJ	1-30-25			

CP3-WM-0018-F01 FRev. 1

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

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

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
2-3-25	1,2,3,4,5,6,7	F-001		19900		
2-3-25	1,2,3,4,5,6,7	F-002		27900	11700	L
2-3-25	1,2,3,4,5,6,7	F-007		12600		
2-3-25	1,2,3,4,5,6,7	F-008		12400		
2-3-25	1,2,3,4,5,6,7	F-009		1600		
2-4-25	1,2,3,4,5,6,7	F-001		25700	24000	L
2-4-25	1,2,3,4,5,6,7	F-002		16200		
2-4-25	1,2,3,4,5,6,7	F-007		12600		
2-4-25	1,2,3,4,5,6,7	F-008		12400		
2-4-25	1,2,3,4,5,6,7	F-009		1600		
2-5-25	1,2,3,4,5,6,7	F-001		1700		
2-5-25	1,2,3,4,5,6,7	F-002		21300	14000	L
2-5-25	1,2,3,4,5,6,7	F-007		12600		
2-5-25	1,2,3,4,5,6,7	F-008		12400		
2-5-25	1,2,3,4,5,6,7	F-009		1600		
2-6-25	1,2,3,4,5,6,7	F-001		6500		
2-6-25	1,2,3,4,5,6,7	F-002		7300	5600	L
2-6-25	1,2,3,4,5,6,7	F-007		12600		
2-6-25	1,2,3,4,5,6,7	F-008		12400		
2-6-25	1,2,3,4,5,6,7	F-009		1600		
2-10-25	1,2,3,4,5,6,7	F-001		23900	13400	L
2-10-25	1,2,3,4,5,6,7	F-002		1700		
2-10-25	1,2,3,4,5,6,7	F-007		12600		
2-10-25	1,2,3,4,5,6,7	F-008		12400		
2-10-25	1,2,3,4,5,6,7	F-009		1600		
2-11-25	1,2,3,4,5,6,7	F-001		10500	8800	L
2-11-25	**1,2,3,4,5,6,7**	F-002		5800		

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

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

Permit No. 073-00045 McCracken County, Kentucky

Month February Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
2-11-25		F-007		12600		
2-11-25		F-008		12400		
2-11-25		F-009		1600		
2-12-25		F-001		1700		
2-12-25		F-002		13900	12000	L
2-12-25		F-007		12600		
2-12-25		F-008		12400		
2-12-25		F-009		1600		
2-13-25		F-001		11900	8900	L
2-13-25		F-002		1900		
2-13-25		F-007		12600		
2-13-25		F-008		12400		
2-13-25		F-009		1600		
2-17-25		F-001		28100	13100	L
2-17-25		F-002		28100		
2-17-25		F-007		12600		
2-17-25		F-008		12400		
2-17-25		F-009		14400	13700	L
2-18-25		F-001		15000		
2-18-25		F-002		28100	26400	L
2-18-25		F-007		12600		
2-18-25		F-008		12400		
2-18-25		F-009		14400		
2-20-25		F-001		27900		
2-20-25		F-002		17300		
2-20-25		F-007		12600		
2-20-25		F-008		12400		

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

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

Permit No. 073-00045 McCracken County, Kentucky

Month February Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
2-20-25	1,2,3,4,5,6,7	F-009		14400		
2-24-25	1,2,3,4,5,6,7	F-001		27900	26200	L
2-24-25	1,2,3,4,5,6,7	F-002		27900		
2-24-25	1,2,3,4,5,6,7	F-007		12600		
2-24-25	1,2,3,4,5,6,7	F-008		12400		
2-24-25	1,2,3,4,5,6,7	F-009		14400		
2-25-25	1,2,3,4,5,6,7	F-001		27900	10300	L
2-25-25	1,2,3,4,5,6,7	F-002		27900	17400	L
2-25-25	1,2,3,4,5,6,7	F-007		12600		
2-25-25	1,2,3,4,5,6,7	F-008		12400		
2-25-25	1,2,3,4,5,6,7	F-009		14400		
2-26-25	1,2,3,4,5,6,7	F-001		17600	15900	L
2-26-25	1,2,3,4,5,6,7	F-002		21300	13800	L
2-26-25	1,2,3,4,5,6,7	F-007		12600		
2-26-25	1,2,3,4,5,6,7	F-008		12400		
2-26-25	1,2,3,4,5,6,7	F-009		14400		
2-27-25	1,2,3,4,5,6,7	F-001		1700		
2-27-25	1,2,3,4,5,6,7	F-002		7500	5800	L
2-27-25	1,2,3,4,5,6,7	F-007		12600		
2-27-25	1,2,3,4,5,6,7	F-008		12400		
2-27-25	1,2,3,4,5,6,7	F-009		14400	12500	L

TW 3-3-2025

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* R – Re-circulated to Working Phas
W – Transported to Wastewater Treatment Facility
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CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
3-3-25	1,2,3,4,5,6,7	F001		27900	12600	L
3-3-25	1,2,3,4,5,6,7	F-002		2600		
3-3-25	1,2,3,4,5,6,7	F-007		12600		
3-3-25	1,2,3,4,5,6,7	F-008		12400		
3-3-25	1,2,3,4,5,6,7	F-009		1900		
3-4-25	1,2,3,4,5,6,7	F-001		15300	13600	L
3-4-25	1,2,3,4,5,6,7	F-002		7300		
3-4-25	1,2,3,4,5,6,7	F-007		12600		
3-4-25	1,2,3,4,5,6,7	F-008		12400		
3-4-25	1,2,3,4,5,6,7	F-009		1900		
3-5-25	1,2,3,4,5,6,7	F-001		1700		
3-5-25	1,2,3,4,5,6,7	F-002		13000	10000	L
3-5-25	1,2,3,4,5,6,7	F-007		12600		
3-5-25	1,2,3,4,5,6,7	F-008		12400		
3-5-25	1,2,3,4,5,6,7	F-009		1900		
3-6-25	1,2,3,4,5,6,7	F-001		6300		
3-6-25	1,2,3,4,5,6,7	F-002		3000		
3-6-25	1,2,3,4,5,6,7	F-007		12600		
3-6-25	1,2,3,4,5,6,7	F-008		12400		
3-6-25	1,2,3,4,5,6,7	F-009		1900		
3-10-25	1,2,3,4,5,6,7	F-001		22900	11600	L
3-10-25	1,2,3,4,5,6,7	F-002		3000		
3-10-25	1,2,3,4,5,6,7	F-007		12600		
3-10-25	1,2,3,4,5,6,7	F-008		12400		
3-10-25	1,2,3,4,5,6,7	F-009		1900		
3-11-25	1,2,3,4,5,6,7	F-001		11300	9400	L
3-11-25	**1,2,3,4,5,6,7**	F-002		6800		

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

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
3-11-25	1,2,3,4,5,6,7	F-007		12600		
3-11-25	1,2,3,4,5,6,7	F-008		12400		
3-11-25	1,2,3,4,5,6,7	F-009		1900		
3-12-25	1,2,3,4,5,6,7	F-001		1900		
3-12-25	1,2,3,4,5,6,7	F-002		10500	8800	L
3-12-25	1,2,3,4,5,6,7	F-007		12600		
3-12-25	1,2,3,4,5,6,7	F-008		12400		
3-12-25	1,2,3,4,5,6,7	F-009		1900		
3-13-25	1,2,3,4,5,6,7	F-001		5500	3800	L
3-13-25	1,2,3,4,5,6,7	F-002		1700		
3-13-25	1,2,3,4,5,6,7	F-007		12600		
3-13-25	1,2,3,4,5,6,7	F-008		12400		
3-13-25	1,2,3,4,56,7	F-009		1900		
3-17-25	1,2,3,4,5,6,7	F-001		1700		
3-17-25	1,2,3,45,6,7	F-002		20700	11800	L
3-17-25	1,2,3,45,6,7	F-007		12600		
3-17-25	1,2,3,4,5,6,7	F-008		12400		
3-17-25	1,2,3,4,5,6,7	F-009		1900		
3-18-25	1,2,3,4,5,6,7	F-001		7500		
3-18-25	1,2,3,4,5,6,7	F-002		8900	7200	L
3-18-25	1,2,3,4,5,6,7	F-007		12600		
3-18-25	1,2,3,4,5,6,7	F-008		12400		
3-18-25	1,2,3,4,5,6,7	F-009		1900		
3-19-25	1,2,3,4,5,6,7	F-001		12200	10500	L
3-19-25	1,2,3,4,5,6,7	F-002		1700		
3-19-25	1,2,3,4,5,6,7	F-007		12600		
3-19-25	**1,2,3,4,5,6,7**	F-008		12400		

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

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
3-19-25	1,2,3,4,5,6,7	F-009		1900		
3-20-25	1,2,3,4,5,6,7	F-001		1700		
3-20-25	1,2,3,4,5,6,7	F-002		7000		
3-20-25	1,2,3,4,5,6,7	F-007		12600		
3-20-25	1,2,3,4,5,6,7	F-008		12400		
3-20-25	1,2,3,4,5,6,7	F-009		1900		
3-24-25	1,2,3,4,5,6,7	F-001		1700		
3-24-25	1,2,3,4,5,6,7	F-002		23900	13700	L
3-24-25	1,2,3,4,5,6,7	F-007		12600		
3-24-25	1,2,3,4,5,6,7	F-008		12400		
3-24-25	1,2,3,4,5,6,7	F-009		1900		
3-25-25	1,2,3,4,5,6,7	F-001		5300		
3-25-25	1,2,3,4,5,6,7	F-002		10200	8500	L
3-25-25	1,2,3,4,5,6,7	F-007		12600		
3-25-25	1,2,3,4,5,6,7	F-008		12400		
3-25-25	1,2,3,4,5,6,7	F-009		1900		
3-26-25	1,2,3,4,5,6,7	F-001		8100	6400	L
3-26-25	1,2,3,4,5,6,7	F-002		1700		
3-26-25	1,2,3,4,5,6,7	F-007		12600		
3-26-25	1,2,3,4,5,6,7	F-008		12400		
3-26-25	1,2,3,4,5,6,7	F-009		1900		
3-27-25	1,2,3,4,5,6,7	F-001		1700		
3-27-25	1,2,3,4,5,6,7	F-002		5500	3800	L
3-27-25	1,2,3,4,5,6,7	F-007		12600		
3-27-25	1,2,3,4,5,6,7	F-008		12400		
3-27-25	1,2,3,4,5,6,7	F-009		1900		
3-31-25	**1,2,3,4,5,6,7**	F-001		13300	7800	L

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

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2025

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
3-31-25	1,2,3,4,5,6,7	F-002		1700		
3-31-25	1,2,3,4,5,6,7	F-007		12600		
3-31-25	1,2,3,4,5,6,7	F-008		12400		
3-31-25	1,2,3,4,5,6,7	F-009		1900		

3-31-25

RBH

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LEACHATE ANALYTICAL RESULTS

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Paducah OREIS Report for SLS25-01

Sample ID: **SLS25-01-01** Station: C-746-S Date Collected: 2/4/2025 MedType: 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	4.09	mg/L	J		250			SW846-9056A	GEL	/X/
Fluoride	0.742	mg/L	J		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	10	mg/L	U		10			SW846-9056A	GEL	/X/
Sulfate	47.5	mg/L			1.6			SW846-9056A	GEL	/X/
FS										
Conductivity	954	µmhos/cm						FS	FS	/X/
Dissolved Oxygen	4.34	mg/L						FS	FS	/X/
Eh (approx)	401.1	mV						FS	FS	/X/
pH	6.91	Std Unit						FS	FS	/X/
Temperature	48.5	deg F						FS	FS	/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	UN		0.005			SW846-6020B	GEL	/X/
Barium	0.212	mg/L			0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	UL		0.0005			SW846-6020B	GEL	/X/
Boron	0.021	mg/L			0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	194	mg/L			1			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	0.000521	mg/L	J		0.002			SW846-6020B	GEL	/X/
Iron	0.0477	mg/L	J		0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	25.1	mg/L			0.03			SW846-6020B	GEL	/X/
Manganese	0.00582	mg/L			0.005			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.000731	mg/L	JN		0.001			SW846-6020B	GEL	/X/
Nickel	0.00095	mg/L	J		0.002			SW846-6020B	GEL	/X/
Phosphorus	0.05	mg/L	U		0.05			EPA-365.4	GEL	/X/
Potassium	0.848	mg/L	N		0.3			SW846-6020B	GEL	/X/J
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	27.7	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	UN		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.00876	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	UN		0.005			SW846-6020B	GEL	/X/
Barium, Dissolved	0.206	mg/L			0.004			SW846-6020B	GEL	/X/

*Verification/Validation/Assessment ** TPU reported at 1.96 sigma Report Generated on 4/2/2025

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/
Cobalt, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Copper, Dissolved	0.00147	mg/L	J	0.002			SW846-6020B	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020B	GEL	/X/
Manganese, Dissolved	0.00535	mg/L		0.005			SW846-6020B	GEL	/X/
Nickel, Dissolved	0.00133	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	UN	0.005			SW846-6020B	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Uranium, Dissolved	0.00866	mg/L		0.0002			SW846-6020B	GEL	/X/
Vanadium, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/X/
Zinc, Dissolved	0.00384	mg/L	J	0.02			SW846-6020B	GEL	S/X/
OTHOR									
Oil and Grease	5	mg/L	UN	5			EPA-1664A	GEL	/X/U,J
PPCB									
PCB-1016	0.0998	ug/L	U	0.0998			SW846-8082A	GEL	/X/
PCB-1221	0.0998	ug/L	U	0.0998			SW846-8082A	GEL	/X/
PCB-1232	0.0998	ug/L	U	0.0998			SW846-8082A	GEL	/X/
PCB-1242	0.0998	ug/L	U	0.0998			SW846-8082A	GEL	/X/
PCB-1248	0.0998	ug/L	U	0.0998			SW846-8082A	GEL	/X/
PCB-1254	0.0998	ug/L	U	0.0998			SW846-8082A	GEL	/X/
PCB-1260	0.0998	ug/L	U	0.0998			SW846-8082A	GEL	/X/
PCB-1268	0.0998	ug/L	U	0.0998			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0998	ug/L	U	0.0998			SW846-8082A	GEL	/X/
RADS									
Alpha activity	7.07	pCi/L		6.24	4.65	4.8	SW846-9310	GEL	/X/
Americium-241	0.147	pCi/L	U	0.929	0.552	0.553	HASL 300, Am-05-RC M	GEL	/X/
Beta activity	11.6	pCi/L		9.35	6.06	6.36	SW846-9310	GEL	/X/
Cesium-137	-0.304	pCi/L	U	2.27	1.28	1.29	EPA-901.1	GEL	/X/
Cobalt-60	-0.315	pCi/L	U	2.01	1.12	1.13	EPA-901.1	GEL	/X/
Neptunium-237	-0.0454	pCi/L	U	2.38	1.05	1.05	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	-0.109	pCi/L	U	0.921	0.328	0.328	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.522	pCi/L		0.125	0.192	0.193	AN-1418	GEL	/X/
Radium-228	-1.7	pCi/L	U	4.32	2.14	2.14	EPA-904.0-M	GEL	/X/
Strontium-90	-1.24	pCi/L	U	3.72	1.82	1.82	EPA-905.0-M	GEL	/X/
Technetium-99	5.78	pCi/L	U	21.4	12.4	12.4	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	2.68	pCi/L	U	5.14	3.58	3.63	HASL 300, Th-01-RC M	GEL	/X/
Thorium-232	0.338	pCi/L	U	4.15	2.12	2.12	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	19.5	pCi/L	U	29.2	45.3	45.5	EPA-901.1	GEL	/X/
Total Uranium	5.79	pCi/L		4.16	3.34	3.38	HASL 300, U-02-RC M	GEL	/X/
Tritium	16	pCi/L	U	209	111	111	EPA-906.0-M	GEL	/X/
Uranium-234	1.41	pCi/L	U	2.88	1.87	1.88	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	1.02	pCi/L	U	2.24	1.62	1.63	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	3.36	pCi/L		2	2.24	2.29	HASL 300, U-02-RC M	GEL	/X/
RADS-D									
Americium-241, Dissolved	0.14	pCi/L	U	0.883	0.525	0.526	HASL 300, Am-05-RC M	GEL	/X/
Cesium-137, Dissolved	-1.84	pCi/L	U	6.52	3.68	3.77	EPA-901.1	GEL	/X/
Cobalt-60, Dissolved	-1.01	pCi/L	U	8.98	4.56	4.59	EPA-901.1	GEL	/X/
Dissolved Alpha	2.32	pCi/L	U	2.92	2.08	2.12	SW846-9310	GEL	/X/
Dissolved Beta	2.17	pCi/L	U	3.08	1.9	1.94	SW846-9310	GEL	/X/
Neptunium-237, Dissolved	0.512	pCi/L	U	2.33	1.29	1.29	ASTM-1475-00M	GEL	/X/
Plutonium-239/240, Dissolved	-0.0371	pCi/L	U	0.74	0.32	0.32	HASL 300, Pu-11-RC M	GEL	/X/
Technetium-99, Dissolved	-0.329	pCi/L	U	21	11.8	11.8	HASL 300, Tc-02-RC M	GEL	/X/

Thorium-230, Dissolved	-0.0737	pCi/L	U	4.92	2.15	2.15	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234, Dissolved	212	pCi/L	U	263	304	308	EPA-901.1	GEL	/X/
Total Uranium, Dissolved	11.3	pCi/L		3.14	4.13	4.28	HASL 300, U-02-RC M	GEL	S/X/
Uranium-234, Dissolved	4.57	pCi/L		2.71	2.7	2.79	HASL 300, U-02-RC M	GEL	S/X/
Uranium-235, Dissolved	0.409	pCi/L	U	1.23	1.15	1.15	HASL 300, U-02-RC M	GEL	/X/
Uranium-238, Dissolved	6.29	pCi/L		0.994	2.91	3.03	HASL 300, U-02-RC M	GEL	S/X/
VOA									
1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	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			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
2-Butanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acetone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	UQ	5			SW846-8260D	GEL	/X/U,J
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U	5			SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U	2			SW846-8260D	GEL	/X/
Methylene chloride	0.66	ug/L	J	5			SW846-8260D	GEL	S/X/
Styrene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Toluene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U	3			SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5			SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U	5			SW846-8260D	GEL	/X/

Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/X/
WETCHEM							
Carbonaceous Biochemical Oxygen Demand (CBOD)	2	mg/L	UX	2	SM-5210B	GEL	/X/
Chemical Oxygen Demand (COD)	20	mg/L	U	20	EPA-410.4	GEL	/X/
Cyanide	0.2	mg/L	U	0.2	SW846-9012B	GEL	/X/
Dissolved Solids	548	mg/L		20	EPA-160.1	GEL	/X/
Hardness - Total as CaCO3	488	mg/L		2	EPA-130.2	GEL	/X/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/X/
Suspended Solids	5	mg/L	U	5	EPA-160.2	GEL	/X/
Total Organic Carbon (TOC)	3.12	mg/L		2	SW846-9060A	GEL	/X/
Total Organic Halides (TOX)	3.52	ug/L	J	10	SW846-9020B	GEL	S/X/

Paducah OREIS Report for SLS25-01

Sample ID: **SLS25-01-02** Station: C-746-S Date Collected: 2/4/2025 MedType: 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	0.484	mg/L			0.2			SW846-9056A	GEL	/X/
Chloride	19.7	mg/L	J		250			SW846-9056A	GEL	/X/
Fluoride	0.368	mg/L	J		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	10	mg/L	U		10			SW846-9056A	GEL	/X/
Sulfate	41.7	mg/L			1.6			SW846-9056A	GEL	/X/
FS										
Conductivity	1103	µmhos/cm						FS	FS	/X/
Dissolved Oxygen	4.86	mg/L						FS	FS	/X/
Eh (approx)	155.1	mV						FS	FS	/X/
pH	6.57	Std Unit						FS	FS	/X/
Temperature	49.3	deg F						FS	FS	/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	0.00383	mg/L	JN		0.005			SW846-6020B	GEL	/X/
Barium	0.388	mg/L			0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	UL		0.0005			SW846-6020B	GEL	/X/
Boron	0.038	mg/L			0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	173	mg/L			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	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Iron	57	mg/L			1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	35.2	mg/L			0.03			SW846-6020B	GEL	/X/
Manganese	1.05	mg/L			0.05			SW846-6020B	GEL	/X/
Mercury	0.00191	mg/L			0.0002			SW846-7470A	GEL	S/X/
Molybdenum	0.000231	mg/L	JN		0.001			SW846-6020B	GEL	/X/
Nickel	0.000743	mg/L	J		0.002			SW846-6020B	GEL	/X/
Phosphorus	0.084	mg/L			0.05			EPA-365.4	GEL	/X/
Potassium	4.84	mg/L	N		0.3			SW846-6020B	GEL	/X/J
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	34.4	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	UN		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.00139	mg/L			0.0002			SW846-6020B	GEL	/X/
Vanadium	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
Zinc	0.00355	mg/L	J		0.02			SW846-6020B	GEL	S/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic, Dissolved	0.00212	mg/L	JN		0.005			SW846-6020B	GEL	/X/
Barium, Dissolved	0.26	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 /
Cobalt, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/ X /
Copper, Dissolved	0.0012	mg/L	J	0.002			SW846-6020B	GEL	/ X /
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020B	GEL	/ X /
Manganese, Dissolved	0.938	mg/L		0.005			SW846-6020B	GEL	/ X /
Nickel, Dissolved	0.000966	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	UN	0.005			SW846-6020B	GEL	/ X /
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/ X /
Uranium, Dissolved	0.00161	mg/L		0.0002			SW846-6020B	GEL	/ X /
Vanadium, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/ X /
Zinc, Dissolved	0.00337	mg/L	J	0.02			SW846-6020B	GEL	S / X /
OTHOR									
Oil and Grease	5.21	mg/L	UN	5.21			EPA-1664A	GEL	/ X / U,J
PPCB									
PCB-1016	0.0974	ug/L	US	0.0974			SW846-8082A	GEL	/ X / U,J
PCB-1221	0.0974	ug/L	US	0.0974			SW846-8082A	GEL	/ X / U,J
PCB-1232	0.0974	ug/L	US	0.0974			SW846-8082A	GEL	/ X / U,J
PCB-1242	0.0974	ug/L	US	0.0974			SW846-8082A	GEL	/ X / U,J
PCB-1248	0.0974	ug/L	US	0.0974			SW846-8082A	GEL	/ X / U,J
PCB-1254	0.0974	ug/L	US	0.0974			SW846-8082A	GEL	/ X / U,J
PCB-1260	0.0974	ug/L	US	0.0974			SW846-8082A	GEL	/ X / U,J
PCB-1268	0.0974	ug/L	US	0.0974			SW846-8082A	GEL	/ X / U,J
Polychlorinated biphenyl	0.0974	ug/L	US	0.0974			SW846-8082A	GEL	/ X / U,J
RADS									
Alpha activity	0.0145	pCi/L	U	5.4	2.52	2.52	SW846-9310	GEL	/ X /
Americium-241	0.00783	pCi/L	U	1.29	0.58	0.581	HASL 300, Am-05-RC M	GEL	/ X /
Beta activity	5.93	pCi/L	U	7.34	4.56	4.66	SW846-9310	GEL	/ X /
Cesium-137	0.572	pCi/L	U	1.68	0.925	0.962	EPA-901.1	GEL	/ X /
Cobalt-60	-0.347	pCi/L	U	1.8	1.03	1.04	EPA-901.1	GEL	/ X /
Neptunium-237	2.01	pCi/L	U	2.47	1.92	1.93	ASTM-1475-00M	GEL	/ X /
Plutonium-239/240	0.277	pCi/L	U	0.415	0.475	0.476	HASL 300, Pu-11-RC M	GEL	/ X /
Radium-226	1.04	pCi/L		0.224	0.282	0.285	AN-1418	GEL	/ X /
Radium-228	1.04	pCi/L	U	4.54	2.57	2.58	EPA-904.0-M	GEL	/ X /
Strontium-90	-2.14	pCi/L	U	5.38	2.76	2.76	EPA-905.0-M	GEL	/ X /
Technetium-99	-0.473	pCi/L	U	21	11.9	11.9	HASL 300, Tc-02-RC M	GEL	/ X /
Thorium-230	1.15	pCi/L	U	3.13	1.99	2	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-232	-0.151	pCi/L	U	2.27	0.93	0.932	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-234	16.9	pCi/L	U	44.8	40.6	41.5	EPA-901.1	GEL	/ X /
Total Uranium	0.836	pCi/L	U	3.44	1.9	1.9	HASL 300, U-02-RC M	GEL	/ X /
Tritium	-13.2	pCi/L	U	199	101	101	EPA-906.0-M	GEL	/ X /
Uranium-234	0.305	pCi/L	U	2.48	1.27	1.27	HASL 300, U-02-RC M	GEL	/ X /
Uranium-235	0.293	pCi/L	U	1.85	1.1	1.1	HASL 300, U-02-RC M	GEL	/ X /
Uranium-238	0.237	pCi/L	U	1.5	0.891	0.892	HASL 300, U-02-RC M	GEL	/ X /
RADS-D									
Americium-241, Dissolved	-0.109	pCi/L	U	0.928	0.33	0.331	HASL 300, Am-05-RC M	GEL	/ X /
Cesium-137, Dissolved	1.66	pCi/L	U	6.46	3.25	3.34	EPA-901.1	GEL	/ X /
Cobalt-60, Dissolved	3.37	pCi/L	U	10.2	4.41	4.68	EPA-901.1	GEL	/ X /
Dissolved Alpha	0.807	pCi/L	U	2.13	1.23	1.24	SW846-9310	GEL	/ X /
Dissolved Beta	5.49	pCi/L		1.92	1.51	1.76	SW846-9310	GEL	/ X /
Neptunium-237, Dissolved	0.162	pCi/L	U	2.66	1.31	1.31	ASTM-1475-00M	GEL	/ X /
Plutonium-239/240, Dissolved	0.0399	pCi/L	U	0.869	0.417	0.417	HASL 300, Pu-11-RC M	GEL	/ X /
Technetium-99, Dissolved	-4.56	pCi/L	U	22.5	12.5	12.5	HASL 300, Tc-02-RC M	GEL	/ X /

Thorium-230, Dissolved	2.63	pCi/L	U	3.22	2.61	2.65	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234, Dissolved	256	pCi/L	U	299	253	284	EPA-901.1	GEL	/X/
Total Uranium, Dissolved	1.14	pCi/L	U	4.77	2.39	2.4	HASL 300, U-02-RC M	GEL	/X/
Uranium-234, Dissolved	-0.523	pCi/L	U	2.77	0.848	0.85	HASL 300, U-02-RC M	GEL	/X/
Uranium-235, Dissolved	0.632	pCi/L	U	3.02	1.74	1.74	HASL 300, U-02-RC M	GEL	/X/
Uranium-238, Dissolved	0.511	pCi/L	U	2.44	1.41	1.41	HASL 300, U-02-RC M	GEL	/X/
VOA									
1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1.7	ug/L		1			SW846-8260D	GEL	/X/
2-Butanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acetone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	UQ	5			SW846-8260D	GEL	/X/U,J
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chlorobenzene	1.18	ug/L		1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U	5			SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U	2			SW846-8260D	GEL	/X/
Methylene chloride	0.68	ug/L	J	5			SW846-8260D	GEL	S/X/
Styrene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Toluene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U	3			SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5			SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U	5			SW846-8260D	GEL	/X/

Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/X/
WETCHEM							
Carbonaceous Biochemical Oxygen Demand (CBOD)	3.65	mg/L		2	SM-5210B	GEL	/X/
Chemical Oxygen Demand (COD)	23.2	mg/L		20	EPA-410.4	GEL	/X/
Cyanide	0.2	mg/L	U	0.2	SW846-9012B	GEL	/X/
Dissolved Solids	562	mg/L		20	EPA-160.1	GEL	/X/
Hardness - Total as CaCO3	486	mg/L		10	EPA-130.2	GEL	/X/
Iodide	0.994	mg/L		0.5	EPA-300.0	GEL	/X/
Suspended Solids	56.2	mg/L	*	5	EPA-160.2	GEL	/X/
Total Organic Carbon (TOC)	8.35	mg/L		2	SW846-9060A	GEL	/X/
Total Organic Halides (TOX)	21.2	ug/L		10	SW846-9020B	GEL	/X/

Paducah OREIS Report for SLS25-01

Sample ID: **FBSLS25-01** Station: QC Date Collected: 2/4/2025 MedType: WQ SmpMethod: GR

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	250	mg/L	U		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	U		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	UN		0.005			SW846-6020B	GEL	/X/
Barium	0.004	mg/L	U		0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	UL		0.0005			SW846-6020B	GEL	/X/
Boron	0.015	mg/L	U		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	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Iron	0.0972	mg/L	J		0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		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	UN		0.001			SW846-6020B	GEL	/X/
Nickel	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Phosphorus	0.05	mg/L	U		0.05			EPA-365.4	GEL	/X/
Potassium	0.3	mg/L	UN		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	UN		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	4.9	mg/L	UN		4.9			EPA-1664A	GEL	/X/U,J
PPCB										
PCB-1016	0.0983	ug/L	U		0.0983			SW846-8082A	GEL	/X/
PCB-1221	0.0983	ug/L	U		0.0983			SW846-8082A	GEL	/X/
PCB-1232	0.0983	ug/L	U		0.0983			SW846-8082A	GEL	/X/
PCB-1242	0.0983	ug/L	U		0.0983			SW846-8082A	GEL	/X/
PCB-1248	0.0983	ug/L	U		0.0983			SW846-8082A	GEL	/X/
PCB-1254	0.0983	ug/L	U		0.0983			SW846-8082A	GEL	/X/
PCB-1260	0.0983	ug/L	U		0.0983			SW846-8082A	GEL	/X/

PCB-1268	0.0983	ug/L	U	0.0983			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0983	ug/L	U	0.0983			SW846-8082A	GEL	/X/
RADS									
Alpha activity	0.0783	pCi/L	U	4.14	1.98	1.98	SW846-9310	GEL	/X/
Americium-241	0.315	pCi/L	U	0.858	0.619	0.621	HASL 300, Am-05-RC M	GEL	/X/
Beta activity	-0.269	pCi/L	U	6.55	3.56	3.56	SW846-9310	GEL	/X/
Cesium-137	-0.671	pCi/L	U	1.11	0.682	0.748	EPA-901.1	GEL	/X/
Cobalt-60	-0.385	pCi/L	U	1.09	0.632	0.656	EPA-901.1	GEL	/X/
Neptunium-237	-0.578	pCi/L	U	2.97	0.931	0.932	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	0.614	pCi/L	U	0.876	0.701	0.705	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.303	pCi/L		0.243	0.187	0.187	AN-1418	GEL	/X/
Radium-228	2.9	pCi/L	U	4.42	2.7	2.8	EPA-904.0-M	GEL	/X/
Strontium-90	-0.808	pCi/L	U	4.06	2.04	2.04	EPA-905.0-M	GEL	/X/
Technetium-99	1.68	pCi/L	U	20.3	11.6	11.6	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	2.03	pCi/L	U	3.98	2.67	2.7	HASL 300, Th-01-RC M	GEL	/X/
Thorium-232	-0.164	pCi/L	U	2.55	1.05	1.05	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	9.61	pCi/L	U	30.3	38.2	38.3	EPA-901.1	GEL	/X/
Total Uranium	0.334	pCi/L	U	5.04	2.33	2.33	HASL 300, U-02-RC M	GEL	/X/
Tritium	48.6	pCi/L	U	189	105	106	EPA-906.0-M	GEL	/X/
Uranium-234	-0.191	pCi/L	U	3.76	1.6	1.61	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	-0.131	pCi/L	U	2.61	1.13	1.13	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	0.334	pCi/L	U	2.11	1.25	1.26	HASL 300, U-02-RC M	GEL	/X/
VOA									
1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0188	ug/L	U	0.0188			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
2-Butanone	6.5	ug/L		5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acetone	5.86	ug/L		5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	UQ	5			SW846-8260D	GEL	/X/U,J
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/

cis-1,3-Dichloropropene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Dibromochloromethane	1	ug/L	U	1	SW846-8260D	GEL	/x/
Dibromomethane	1	ug/L	U	1	SW846-8260D	GEL	/x/
Ethylbenzene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Iodomethane	5	ug/L	U	5	SW846-8260D	GEL	/x/
m,p-Xylene	2	ug/L	U	2	SW846-8260D	GEL	/x/
Methylene chloride	0.69	ug/L	J	5	SW846-8260D	GEL	/x/
Styrene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Tetrachloroethene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Toluene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Total Xylene	3	ug/L	U	3	SW846-8260D	GEL	/x/
trans-1,2-Dichloroethene	1	ug/L	U	1	SW846-8260D	GEL	/x/
trans-1,3-Dichloropropene	1	ug/L	U	1	SW846-8260D	GEL	/x/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	SW846-8260D	GEL	/x/
Trichloroethene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Trichlorofluoromethane	1	ug/L	U	1	SW846-8260D	GEL	/x/
Vinyl acetate	5	ug/L	U	5	SW846-8260D	GEL	/x/
Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/x/
WETCHEM							
Chemical Oxygen Demand (COD)	20	mg/L	U	20	EPA-410.4	GEL	/x/
Hardness - Total as CaCO3	2	mg/L	U	2	EPA-130.2	GEL	/x/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/x/
Total Organic Carbon (TOC)	0.345	mg/L	J	2	SW846-9060A	GEL	/x/

Paducah OREIS Report for SLS25-01

Sample ID: **TBSLS25-01** Station: QC Date Collected: 2/4/2025 MedType: WQ SmpMethod: GR

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			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U		0.0189			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
2-Butanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
Acetone	5	ug/L	U		5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	UQ		5			SW846-8260D	GEL	/X/U,J
Acrylonitrile	5	ug/L	U		5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U		5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U		5			SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U		2			SW846-8260D	GEL	/X/
Methylene chloride	0.69	ug/L	J		5			SW846-8260D	GEL	/X/
Styrene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Toluene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U		3			SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U		1			SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U		5			SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U		5			SW846-8260D	GEL	/X/

*Verification/Validation/Assessment ** TPU reported at 1.96 sigma Report Generated on 4/2/2025

Vinyl chloride	1	ug/L	U	1		SW846-8260D	GEL	/ X /

Paducah OREIS Report for ULS25-01

Sample ID: **ULS25-01-01** Station: C-746-U Date Collected: 2/4/2025 MedType: WW SmpMethod: GR

Comments: Samples taken from tank F-001. ZW 2-4-25

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
ANION										
Bromide	0.17	mg/L	J		0.2			SW846-9056A	GEL	/X/
Chloride	39.5	mg/L	J		250			SW846-9056A	GEL	/X/
Fluoride	0.66	mg/L	J		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	1.98	mg/L	J		10			SW846-9056A	GEL	/X/
Sulfate	235	mg/L			8			SW846-9056A	GEL	/X/
FS										
Conductivity	1270	µmhos/cm						FS	FS	/X/
Dissolved Oxygen	10.53	mg/L						FS	FS	/X/
Eh (approx)	435	mV						FS	FS	/X/
pH	7.53	Std Unit						FS	FS	/X/
Temperature	56.7	deg F						FS	FS	/X/
METAL										
Aluminum	0.0808	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	UN		0.005			SW846-6020B	GEL	/X/
Barium	0.103	mg/L			0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	UL		0.0005			SW846-6020B	GEL	/X/
Boron	2.87	mg/L			0.75			SW846-6020B	GEL	S/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	160	mg/L			10			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.000862	mg/L	J		0.001			SW846-6020B	GEL	/X/
Copper	0.00188	mg/L	J		0.002			SW846-6020B	GEL	/X/
Iron	0.0958	mg/L	J		0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	43.3	mg/L			0.03			SW846-6020B	GEL	/X/
Manganese	0.0119	mg/L			0.005			SW846-6020B	GEL	S/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.00163	mg/L	N		0.001			SW846-6020B	GEL	/X/
Nickel	0.00498	mg/L			0.002			SW846-6020B	GEL	/X/
Phosphorus	0.05	mg/L	U		0.05			EPA-365.4	GEL	/X/
Potassium	6.19	mg/L	N		0.3			SW846-6020B	GEL	/X/J
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	113	mg/L			12.5			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	UN		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.192	mg/L			0.0002			SW846-6020B	GEL	I/X/
Vanadium	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
Zinc	0.0228	mg/L			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	UN		0.005			SW846-6020B	GEL	/X/
Barium, Dissolved	0.104	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 /
Cobalt, Dissolved	0.000867	mg/L	J	0.001			SW846-6020B	GEL	/ X /
Copper, Dissolved	0.00288	mg/L		0.002			SW846-6020B	GEL	/ X /
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020B	GEL	/ X /
Manganese, Dissolved	0.0104	mg/L		0.005			SW846-6020B	GEL	/ X /
Nickel, Dissolved	0.00486	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	UN	0.005			SW846-6020B	GEL	/ X /
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/ X /
Uranium, Dissolved	0.2	mg/L		0.0002			SW846-6020B	GEL	/ X /
Vanadium, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/ X /
Zinc, Dissolved	0.0214	mg/L		0.02			SW846-6020B	GEL	/ X /
OTHOR									
Oil and Grease	5	mg/L	UN	5			EPA-1664A	GEL	/ X / U,J
PPCB									
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	70.6	pCi/L		8.89	15.9	20	SW846-9310	GEL	I / X /
Americium-241	0.281	pCi/L	U	1.02	0.646	0.647	HASL 300, Am-05-RC M	GEL	/ X /
Beta activity	93.4	pCi/L		9.62	12.9	20.3	SW846-9310	GEL	/ X /
Cesium-137	0.555	pCi/L	U	1.26	0.756	0.798	EPA-901.1	GEL	/ X /
Cobalt-60	-0.196	pCi/L	U	1.17	0.649	0.655	EPA-901.1	GEL	/ X /
Neptunium-237	-0.281	pCi/L	U	1.72	0.546	0.547	ASTM-1475-00M	GEL	/ X /
Plutonium-239/240	0.0431	pCi/L	U	0.939	0.45	0.451	HASL 300, Pu-11-RC M	GEL	/ X /
Radium-226	0.623	pCi/L		0.166	0.22	0.221	AN-1418	GEL	/ X /
Radium-228	2.16	pCi/L	U	4.35	2.58	2.63	EPA-904.0-M	GEL	/ X /
Strontium-90	0.663	pCi/L	U	5.55	3.07	3.07	EPA-905.0-M	GEL	/ X /
Technetium-99	14.5	pCi/L	U	23.4	14	14.1	HASL 300, Tc-02-RC M	GEL	/ X /
Thorium-230	0.693	pCi/L	U	1.59	1.04	1.05	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-232	0.192	pCi/L	U	0.864	0.6	0.601	HASL 300, Th-01-RC M	GEL	/ X /
Thorium-234	44.4	pCi/L		33.4	40.3	41.5	EPA-901.1	GEL	/ X /
Total Uranium	74.3	pCi/L		3.64	8.89	11.6	HASL 300, U-02-RC M	GEL	/ X /
Tritium	23.5	pCi/L	U	212	113	113	EPA-906.0-M	GEL	/ X /
Uranium-234	15.4	pCi/L		2.39	4.11	4.57	HASL 300, U-02-RC M	GEL	/ X /
Uranium-235	2.47	pCi/L		1.82	1.95	1.97	HASL 300, U-02-RC M	GEL	/ X /
Uranium-238	56.4	pCi/L		2.06	7.64	10.5	HASL 300, U-02-RC M	GEL	/ X /
RADS-D									
Americium-241, Dissolved	-0.0862	pCi/L	U	0.995	0.381	0.382	HASL 300, Am-05-RC M	GEL	/ X /
Cesium-137, Dissolved	0.486	pCi/L	U	9.71	5.13	5.13	EPA-901.1	GEL	/ X /
Cobalt-60, Dissolved	1.04	pCi/L	U	8.43	3.61	3.64	EPA-901.1	GEL	/ X /
Dissolved Alpha	49.1	pCi/L		2.84	7.25	11.2	SW846-9310	GEL	I / X /
Dissolved Beta	48.9	pCi/L		3.46	4.82	9.42	SW846-9310	GEL	/ X /
Neptunium-237, Dissolved	0.0775	pCi/L	U	1.65	0.786	0.787	ASTM-1475-00M	GEL	/ X /
Plutonium-239/240, Dissolved	0.0821	pCi/L	U	0.874	0.456	0.456	HASL 300, Pu-11-RC M	GEL	/ X /
Technetium-99, Dissolved	15.6	pCi/L	U	22.1	13.3	13.4	HASL 300, Tc-02-RC M	GEL	/ X /

Thorium-230, Dissolved	0.0892	pCi/L	U	1.73	0.825	0.827	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234, Dissolved	30.3	pCi/L	U	330	182	183	EPA-901.1	GEL	/X/
Total Uranium, Dissolved	89.4	pCi/L		5.1	13.1	17.4	HASL 300, U-02-RC M	GEL	/X/
Uranium-234, Dissolved	17.8	pCi/L		3.77	5.97	6.64	HASL 300, U-02-RC M	GEL	/X/
Uranium-235, Dissolved	2.37	pCi/L		1.78	2.61	2.64	HASL 300, U-02-RC M	GEL	/X/
Uranium-238, Dissolved	69.2	pCi/L		2.93	11.4	15.9	HASL 300, U-02-RC M	GEL	/X/
VOA									
1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	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			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
2-Butanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acetone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	UQ	5			SW846-8260D	GEL	/X/U,J
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U	5			SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U	2			SW846-8260D	GEL	/X/
Methylene chloride	0.62	ug/L	J	5			SW846-8260D	GEL	/X/
Styrene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Toluene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U	3			SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5			SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U	5			SW846-8260D	GEL	/X/

Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/X/
WETCHEM							
Carbonaceous Biochemical Oxygen Demand (CBOD)	2	mg/L	UX	2	SM-5210B	GEL	/X/
Chemical Oxygen Demand (COD)	20	mg/L	U	20	EPA-410.4	GEL	/X/
Cyanide	0.005	mg/L	U	0.005	SW846-9012B	GEL	/X/
Dissolved Solids	788	mg/L		20	EPA-160.1	GEL	/X/
Hardness - Total as CaCO3	508	mg/L		2	EPA-130.2	GEL	/X/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/X/
Suspended Solids	0.6	mg/L	J	2.5	EPA-160.2	GEL	S/X/
Total Organic Carbon (TOC)	6.49	mg/L		2	SW846-9060A	GEL	/X/
Total Organic Halides (TOX)	30	ug/L		10	SW846-9020B	GEL	/X/

Paducah OREIS Report for ULS25-01

Sample ID: **FBULS25-01** Station: QC Date Collected: 2/4/2025 MedType: WQ SmpMethod: GR

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	250	mg/L	U		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	U		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	UN		0.005			SW846-6020B	GEL	/X/
Barium	0.004	mg/L	U		0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	UL		0.0005			SW846-6020B	GEL	/X/
Boron	0.0065	mg/L	J		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	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Iron	0.1	mg/L	U		0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		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	UN		0.001			SW846-6020B	GEL	/X/
Nickel	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Phosphorus	0.05	mg/L	U		0.05			EPA-365.4	GEL	/X/
Potassium	0.3	mg/L	UN		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	UN		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	5	mg/L	UN		5			EPA-1664A	GEL	/X/U,J
PPCB										
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	-0.897	pCi/L	U	5.9	2.24	2.24	SW846-9310	GEL	/X/
Americium-241	0.133	pCi/L	U	0.837	0.497	0.498	HASL 300, Am-05-RC M	GEL	/X/
Beta activity	2.53	pCi/L	U	9.15	5.19	5.21	SW846-9310	GEL	/X/
Cesium-137	0.285	pCi/L	U	1.28	0.717	0.729	EPA-901.1	GEL	/X/
Cobalt-60	0.401	pCi/L	U	1.27	0.745	0.767	EPA-901.1	GEL	/X/
Neptunium-237	-0.0569	pCi/L	U	1.94	0.819	0.82	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	0.201	pCi/L	U	1.18	0.631	0.631	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.293	pCi/L		0.191	0.169	0.17	AN-1418	GEL	/X/
Radium-228	2.31	pCi/L	U	4.8	2.84	2.9	EPA-904.0-M	GEL	/X/
Strontium-90	2.77	pCi/L	U	3.8	2.37	2.41	EPA-905.0-M	GEL	/X/
Technetium-99	1.6	pCi/L	U	22.7	13.2	13.2	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	1.49	pCi/L	U	1.77	1.38	1.4	HASL 300, Th-01-RC M	GEL	/X/
Thorium-232	-0.0742	pCi/L	U	1.11	0.453	0.454	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	9.35	pCi/L	U	32.4	47.9	48	EPA-901.1	GEL	/X/
Total Uranium	1.35	pCi/L	U	5.23	3.01	3.02	HASL 300, U-02-RC M	GEL	/X/
Tritium	72.6	pCi/L	U	211	120	121	EPA-906.0-M	GEL	/X/
Uranium-234	0.166	pCi/L	U	3.6	1.7	1.7	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	1.18	pCi/L	U	1.77	2.03	2.04	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	-0.0957	pCi/L	U	3.36	1.44	1.44	HASL 300, U-02-RC M	GEL	/X/
VOA									
1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0188	ug/L	U	0.0188			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
2-Butanone	12.3	ug/L		5			SW846-8260D	GEL	/X/
2-Hexanone	3	ug/L	J	5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acetone	8.69	ug/L		5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	UQ	5			SW846-8260D	GEL	/X/U,J
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/

cis-1,3-Dichloropropene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Dibromochloromethane	1	ug/L	U	1	SW846-8260D	GEL	/x/
Dibromomethane	1	ug/L	U	1	SW846-8260D	GEL	/x/
Ethylbenzene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Iodomethane	5	ug/L	U	5	SW846-8260D	GEL	/x/
m,p-Xylene	2	ug/L	U	2	SW846-8260D	GEL	/x/
Methylene chloride	0.72	ug/L	J	5	SW846-8260D	GEL	/x/
Styrene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Tetrachloroethene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Toluene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Total Xylene	3	ug/L	U	3	SW846-8260D	GEL	/x/
trans-1,2-Dichloroethene	1	ug/L	U	1	SW846-8260D	GEL	/x/
trans-1,3-Dichloropropene	1	ug/L	U	1	SW846-8260D	GEL	/x/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	SW846-8260D	GEL	/x/
Trichloroethene	1	ug/L	U	1	SW846-8260D	GEL	/x/
Trichlorofluoromethane	1	ug/L	U	1	SW846-8260D	GEL	/x/
Vinyl acetate	5	ug/L	U	5	SW846-8260D	GEL	/x/
Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/x/
WETCHEM							
Chemical Oxygen Demand (COD)	20	mg/L	U	20	EPA-410.4	GEL	/x/
Hardness - Total as CaCO3	2	mg/L	U	2	EPA-130.2	GEL	/x/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/x/
Total Organic Carbon (TOC)	2	mg/L	U	2	SW846-9060A	GEL	/x/

Paducah OREIS Report for ULS25-01

Sample ID: **TBULS25-01** Station: QC Date Collected: 2/4/2025 MedType: WQ SmpMethod: GR

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			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U		1			SW846-8260D	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			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
2-Butanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
Acetone	5	ug/L	U		5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	UQ		5			SW846-8260D	GEL	/X/U,J
Acrylonitrile	5	ug/L	U		5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U		5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chlorobenzene	0.35	ug/L	J		1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U		5			SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U		2			SW846-8260D	GEL	/X/
Methylene chloride	0.67	ug/L	J		5			SW846-8260D	GEL	/X/
Styrene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Toluene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U		3			SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U		1			SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U		5			SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U		5			SW846-8260D	GEL	/X/

*Verification/Validation/Assessment ** TPU reported at 1.96 sigma Report Generated on 4/2/2025

Vinyl chloride	1	ug/L	U	1		SW846-8260D	GEL	/ X /

Thank you for submitting your information via the Kentucky Department for Environmental Protection eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. Your Submittal ID and Transaction ID will be included in an email after DEP Staff have reviewed your submittal.
The Submittal ID for this transaction is 496050 and was submitted by Myrna Redfield on April 09, 2025 12:21 PM Eastern Time

. If you need to contact EEC regarding your submission, please reference your Submittal ID. The eForm Submittal ID allows you to use the data from this submittal as a template and/or download a copy of your submittal.
PLEASE NOTE: The submitted eForm(s) have items REQUIRING PAYMENT on our on-line ePay website. If your browser has prevented EEC's ePay site from appearing, please click here (http://dep.gateway.ky.gov/ePay3/Secure_ePay.aspx?ID=4bc215bf-7f26-45ef-8906-253fdf72c377&CS=N&token=EAAAAJNqQAD9Yvwqdfk5uDkKyPx%2ff7r0N5E91emr9%2ffSJYNh5QuSYegNe8v89fX03euMkAWgr40%2fomefu4q1E1Jtp3A%3d) to go to the ePay page. Your eForm is NOT COMPLETE WITHOUT PAYMENT!

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 #(*)	Facility Name	Report for the Months of(*)	Year(*)
3059	Dept of Energy-Paducah	Jan, Feb, Mar	2025

County where landfill is located:	LandFill(*)
McCracken	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
MCCRACKEN,KY	0	122.90	0	0

Sub total				

Total Tonnage : 122.9

Total Fee :	215.075

***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:(*)	Pin(*)	Title:(*)
Myrna E. Redfield	PIN	Program Manager

First Name:(*)	M.I.:	Last Name:(*)
Myrna	E	Redfield

eMail Address:(*)	Business Phone:(*)	Alternate Phone:	Signature Date:(*)

myrna.redfield@pad.pppo.gov	(270) 441-5113	(270) 217-2529	4/9/2025

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