GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

April 04, 2025

Ms. Heather Medley
Central Plateau Cleanup Company
200 East / MO-277 / 108
PO Box 1600
Richland, Washington 99352

Re: SAF I25-012
Work Order: 712612
SDG: GEL712612

Dear Ms. Medley:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 07, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

Sincerely,

Latarsha Green

Latarsha Green for
Heather Shaffer
Project Manager

Purchase Order: 901852 - 7H
Chain of Custody: I25-012-039 and I25-012-043
Enclosures

problem solved

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Case Narrative

General Narrative
for
Central Plateau Cleanup Company (89223)
SAF I25-012
SDG: GEL712612

April 04, 2025

Laboratory Identification:

GEL Laboratories, LLC.

Summary

Sample receipt

The sample(s) arrived at GEL Laboratories, LLC, Charleston, South Carolina on March 07, 2025, for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Items of Note All efforts were made by the lab to meet any short hold times. Samples that were analyzed outside of the initial hold time but still within 2X hold time will be noted in the lab case narrative.

Sample Identification
The laboratory received the following samples:

Laboratory Identification	Sample Description
712612001	B4KXY2
712612002	B4KY01

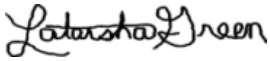
Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package

The enclosed data package contains the following sections: General Narrative, Chain of Custody and Supporting Documentation, and data from the following fractions: Radiochemistry.

We certify that this package is in compliance with the Analytical Laboratory Services for Central Plateau Cleanup Company Statement of Work, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this data package deliverable has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.



Latarsha Green for
Heather Shaffer
Project Manager

Radiochemistry
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL712612
Work Order #: 712612

SMR_C14_LSC

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1206031044 (B4KXY9MS), aliquot was reduced to conserve sample volume.

SMR_TC99_LSC

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

SMR_SE79_LSC

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Chain of Custody and Supporting Documentation

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SDG GEL712612

GEL712612

Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 712612

C.O.C. # **I25-012-039**

PAGE 1 OF 1

Collector:	Dave Stephenson/CPCCo	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-012	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, March 2025	**Logbook No.:**	HNF-N-506-147/39	**Ice Chest No.:**	GWS-266
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7724 9762 8972
Protocol:	SURV	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*** Contains Radioactive Material at concentrations that are not regulated for transportation by 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

N/A

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservation
B4KXY2	N	W	MAR 04 2025	1200	1x250-mL G/P	SMR_C14_LSC	6 Months	None

Relinquished By			Received By		
Print First and Last Name	*Signature*	*Date/Time*	*Print First and Last Name*	*Signature*	*Date/Time*
Dave Stephenson/CPCCo		MAR 04 2025 1306	Mike Esparza / CPCC		MAR 04 2025 1306
Mike Esparza / CPCC		MAR 04 2025 1315	SSU-1		MAR 04 2025 1315
SSU-1		MAR 05 2025 0700	Troy Bacon CPCC	Troy Bacon	MAR 05 2025 0700
Troy Bacon CPCC	Troy Bacon	MAR 05 2025 1400	FEDEX		
	FedEx		Stacy Boone		MAR 07 2025 935

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

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4/4/25

Rev. 0

Central Plateau Cleanup Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 712612	C.O.C. # I25-012-043 PAGE 1 OF 1

Collector:	Dave Stephenson/CPCCo	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-012	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, March 2025	**Logbook No.:**	HNF-N-506 ~147/39	**Ice Chest No.:**	GWS-266
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7724 9762 8972
Protocol:	SURV	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

N/A

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservation
B4KY01	N	W	MAR 04 2025	1237	1x250-mL G/P	SMR_C14_LSC	6 Months	None
B4KY01	N	W	"	"	1x250-mL G/P	SMR_SE79_LSC	6 Months	HNO3 to pH <2
B4KY01	N	W	"	"	1x250-mL G/P	SMR_TC99_LSC	6 Months	HNO3 to pH <2

Relinquished By			Received By		
Print First and Last Name	*Signature*	*Date/Time*	*Print First and Last Name*	*Signature*	*Date/Time*
Dave Stephenson/CPCCo		MAR 04 2025 1306	Mike Esparza / CPCC		MAR 04 2025 1306
Mike Esparza / CPCC		MAR 04 2025 1315	SSU-1		MAR 04 2025 1315
SSU-1		MAR 05 2025 0700	Troy Bacon CPCC	Troy Bacon	MAR 05 2025 0700
Troy Bacon CPCC	Troy Bacon	MAR 05 2025 1400	FEDEX		
FedEx			Stacy Boone	Stacy Boone	MAR 07 2025 935

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

GEL712612 4/4/25 Rev. 0

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CPRI | SDG/AR/COC/Work Order: 712612 | GEL PM: HS

Received By: Stacy L Boone | Date Received at GEL: March 7, 2025

Carrier (Circle Applicable): FedEx Express / FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR4-24 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le radiochem only).
7725 0159 5778	1c				
0476 0767	1c				
0528 0864	1c				
9762 8972	1c				

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?	✓		COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	✓		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 8 CPM / mR/Hr. Classified as: (Rad 1) Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)	✓			If Yes, are Encores or Soil Kits present? Yes___ No✓ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes✓ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes✓ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials MMS Date 3/10/25

Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

Data Review Qualifier Definitions

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 (843) 556-8171

Project Specific Qualifier Definitions for GEL Client Code: CPRC

Qualifier	Qualifier Definition	Department	Fraction
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.		
J	Value is estimated		
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.	Organics	
C	Analyte has been confirmed by GC/MS analysis	Organics	Pesticide
B	The target analyte was detected in the associated blank.	Organics	
E	Concentration of the target analyte exceeds the instrument calibration range	Organics	
A	The TIC is a suspected aldol-condensation product	Organics	Semi-Volatile
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
N	Metals--The Matrix spike sample recovery is not within specified control limits	Inorganics	
*	A quality control analyte recovery is outside of specified acceptance criteria		
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor	Organics	Semi-Volatile
H	Analytical holding time was exceeded		
**	Analyte is a surrogate compound	Organics	
<	Result is less than value reported		
>	Result is greater than value reported		
UI	Gamma Spectroscopy--Uncertain identification	Radiological	
BD	Results are either below the MDC or tracer recovery is low	Radiological	
h	Preparation or preservation holding time was exceeded		
R	Sample results are rejected		
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.	General Chemistry	General Chem
d	5-day BOD--The 2:1 depletion requirement was not met for this sample	General Chemistry	
B	Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL	Inorganics	Metals
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.		
D	Results are reported from a diluted aliquot of the sample	Organics	
N/A	RPD or %Recovery limits do not apply.		
ND	Analyte concentration is not detected above the detection limit		
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria	Inorganics	Metals
M	M if above MDC and less than LLD	Radiological	
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
FA	Failed analysis.	Radiological	Bioassay
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range	General Chemistry	General Chem
JNX	Non Calibrated Compound	Organics	Volatile
UJ	Compound cannot be extracted	Organics	Semi-Volatile

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 (843) 556-8171

Project Specific Qualifier Definitions for GEL Client Code: CPRC

Qualifier	Qualifier Definition	Department	Fraction
UJ	Gamma Spectroscopy--Uncertain identification	Radiological	Rad
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.		
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.	Radiological	
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.	Radiological	
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.	Radiological	
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies	Inorganics	Metals
N1	See case narrative		
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.	Inorganics	
Y	QC Samples were not spiked with this compound	Organics	
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.	General Chemistry	General Chem
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.	Radiological	Rad
**	Analyte is a Tracer compound	Radiological	
B	The target analyte was detected in the associated blank.	General Chemistry	
N	Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor	Organics	Volatile
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes	General Chemistry	General Chem
M	REMP Result > MDC/CL and < RDL	Radiological	
I	Analyte does not meet the Ion Abundance Ratio and should be considered an estimated concentration.	Organics	LC-MS/MS
FG	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier	Organics	LC-MS/MS
XG	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier	Organics	LC-MS/MS
G	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier	Organics	LC-MS/MS
x	Subaliquot was taken. See Case Narrative for details.		

Laboratory Certifications

List of current GEL Certifications as of 04 April 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Radiological Analysis

Case Narrative

Radiochemistry
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL712612
Work Order #: 712612

Product: **SMR_C14_LSC**
Analytical Method: C14_LSC
Analytical Procedure: GL-RAD-A-003 REV# 18
Analytical Batch: 2762730

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
712612001	B4KXY2
712612002	B4KY01
1206031042	Method Blank (MB)
1206031043	712745003(B4KXY9) Sample Duplicate (DUP)
1206031044	712745003(B4KXY9) Matrix Spike (MS)
1206031045	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Aliquot Reduced
1206031043 (B4KXY9DUP) and 1206031044 (B4KXY9MS) Aliquots were reduced due to limited sample volume.

Miscellaneous Information

Additional Comments
The matrix spike, 1206031044 (B4KXY9MS), aliquot was reduced to conserve sample volume.

Product: **SMR_TC99_LSC**
Analytical Method: TC99_LSC
Analytical Procedure: GL-RAD-A-059 REV# 5
Analytical Batch: 2763240

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
712612002	B4KY01
1206032118	Method Blank (MB)
1206032119	712848001(NonSDG) Sample Duplicate (DUP)
1206032120	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **SMR_SE79_LSC**
Analytical Method: SE79_LSC
Analytical Procedure: GL-RAD-A-031 REV# 14
Analytical Batch: 2763418

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
712612002	B4KY01
1206032539	Method Blank (MB)
1206032540	712745005(B4KY19) Sample Duplicate (DUP)
1206032541	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

CPRC003 Central Plateau Cleanup Company (89223)

Client SDG: GEL712612 GEL Work Order: 712612

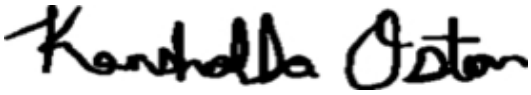
The Qualifiers in this report are defined as follows:

U Analyzed for but not detected above the MDL, MDA, MDC or LOD.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature:  **Name: Kenshalla Oston**

Date: 04 APR 2025 **Title: Analyst I**

Sample Data Summary

Rad
Certificate of Analysis
Sample Summary

SDG Number:	GEL712612	**Client:**	CPRC003	**Project:**	CPRC0I25012
Lab Sample ID:	712612001	**Date Collected:**	03/04/2025 12:00	**Matrix:**	WATER
		Date Received:	03/07/2025 09:35		
Client ID:	B4KXY2			**Prep Basis:**	"As Received"
Batch ID:	2762730	**Method:**	C14_LSC	**SOP Ref:**	GL-RAD-A-003
Run Date:	04/03/2025 16:03	**Analyst:**	MJ3	**Instrument:**	LSCMOCHA
Data File:	C2762730.xls	**Aliquot:**	100.55 mL	**Count Time:**	20 min
Prep Batch:	2762730	**Prep Method:**	EPA EERF C-01 Modified		
Prep Date:	03/20/2025 09:45				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14762-75-5	Carbon-14	U	-14.5	pCi/L	+/-16.6	16.6	30.1	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits

Comments:

U Analyzed for but not detected above the MDL, MDA, MDC or LOD.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).
The MDC is a sample specific MDC.

Rad
Certificate of Analysis
Sample Summary

SDG Number:	GEL712612	**Client:**	CPRC003	**Project:**	CPRC0I25012
Lab Sample ID:	712612002	**Date Collected:**	03/04/2025 12:37	**Matrix:**	WATER
		Date Received:	03/07/2025 09:35		
Client ID:	B4KY01			**Prep Basis:**	"As Received"
Batch ID:	2762730	**Method:**	C14_LSC	**SOP Ref:**	GL-RAD-A-003
Run Date:	04/03/2025 16:24	**Analyst:**	MJ3	**Instrument:**	LSCMOCHA
Data File:	C2762730.xls	**Aliquot:**	100.78 mL	**Count Time:**	20 min
Prep Batch:	2762730	**Prep Method:**	EPA EERF C-01 Modified		
Prep Date:	03/20/2025 09:45				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14762-75-5	Carbon-14	U	7.91	pCi/L	+/-17.5	17.5	29.9	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits

Comments:

U Analyzed for but not detected above the MDL, MDA, MDC or LOD.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).
The MDC is a sample specific MDC.

Rad
Certificate of Analysis
Sample Summary

SDG Number:	**GEL712612**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25012**
Lab Sample ID:	**712612002**	**Date Collected:**	**03/04/2025 12:37**	**Matrix:**	**WATER**
		Date Received:	**03/07/2025 09:35**		
Client ID:	**B4KY01**			**Prep Basis:**	**"As Received"**
Batch ID:	**2763240**	**Method:**	**TC99_LSC**	**SOP Ref:**	**GL-RAD-A-059**
Run Date:	**04/02/2025 00:48**	**Analyst:**	**GS3**	**Instrument:**	**LSCOPAL**
Data File:	**E2763240.xls**	**Aliquot:**	**100.49 mL**	**Count Time:**	**15 min**
Prep Batch:	**2763240**	**Prep Method:**	**DOE EML HASL-300, Tc-02-**		
Prep Date:	**03/21/2025 08:29**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14133-76-7	Technetium-99	U	11.1	pCi/L	+/-14.2	14.3	24.1	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Technetium-99m Tracer	6.63E+05	6.79E+05	CPM	97.7	(30%-105%)

Comments:

U Analyzed for but not detected above the MDL, MDA, MDC or LOD.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The MDC is a sample specific MDC.

Rad
Certificate of Analysis
Sample Summary

SDG Number:	**GEL712612**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25012**
Lab Sample ID:	**712612002**	**Date Collected:**	**03/04/2025 12:37**	**Matrix:**	**WATER**
		Date Received:	**03/07/2025 09:35**		
Client ID:	**B4KY01**			**Prep Basis:**	**"As Received"**
Batch ID:	**2763418**	**Method:**	**SE79_LSC**	**SOP Ref:**	**GL-RAD-A-031**
Run Date:	**03/28/2025 20:49**	**Analyst:**	**CR1**	**Instrument:**	**LSCNAVY**
Data File:	**SE2763418.xls**	**Aliquot:**	**0.10082 L**	**Count Time:**	**20 min**
Prep Batch:	**2763418**	**Prep Method:**	**NERC ORD**		
Prep Date:	**03/21/2025 10:07**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
15758-45-9	Selenium-79	U	19.0	pCi/L	+/-27.4	27.4	46.3	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Selenium Carrier	12.5	20.0	mg	62.5	(40%-110%)

Comments:

U Analyzed for but not detected above the MDL, MDA, MDC or LOD.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The MDC is a sample specific MDC.

Quality Control Data

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: April 4, 2025

Client : **Central Plateau Cleanup Company**
200 East / MO-277 / 108
PO Box 1600
Richland, Washington 99352
Contact: **Ms. Heather Medley**

Workorder: **712612**

Parmname	NOM		Sample	Qual	QC	Units	QC Criteria			Analyst	Date Time
Rad Liquid Scintillation											
Batch 2762730											
QC1206031042 MB											
Carbon-14				U	-0.384	pCi/L				MJ3	04/03/2518:10
Uncert:					+/-17.1						
TPU:					+/-17.1						
QC1206031043 712745003 DUP											
Carbon-14		U	5.35	U	4.35	pCi/L					04/03/2518:31
Uncert:			+/-21.6		+/-21.7		RPD:	0	N/A		
TPU:			+/-21.7		+/-21.7		RER:	0.0644	(0-2)		
QC1206031044 712745003 MS											
Carbon-14	2980	U	5.35		2790	pCi/L	REC:	93.6	(75%-125%)		04/03/2518:52
Uncert:			+/-21.6		+/-146						
TPU:			+/-21.7		+/-538						
QC1206031045 LCS											
Carbon-14	739				687	pCi/L	REC:	92.9	(80%-120%)		04/03/2519:13
Uncert:					+/-36.2						
TPU:					+/-133						
Batch 2763240											
QC1206032118 MB											
Technetium-99				U	-9.55	pCi/L				GS3	04/02/2507:19
Uncert:					+/-12.6						
TPU:					+/-12.6						
**Technetium-99m Tracer	6.79E+05				6.72E+05	CPM	REC:	99	(30%-105%)		
QC1206032119 712848001 DUP											
Technetium-99			70.7		46.4	pCi/L					04/02/2507:36
Uncert:			+/-17.1		+/-15.8		RPD:	42	(0% - 100%)		
TPU:			+/-18.9		+/-16.6		RER:	1.89	(0-2)		
**Technetium-99m Tracer	6.79E+05		6.91E+05		6.91E+05	CPM	REC:	102	(30%-105%)		
QC1206032120 LCS											
Technetium-99	615				550	pCi/L	REC:	89.4	(80%-120%)		04/02/2507:52
Uncert:					+/-34.3						
TPU:					+/-70.4						
**Technetium-99m Tracer	6.79E+05				6.77E+05	CPM	REC:	100	(30%-105%)		
Batch 2763418											
QC1206032539 MB											
Selenium-79				U	2.93	pCi/L				CR1	03/28/2521:51
Uncert:					+/-19.9						
TPU:					+/-19.9						
**Selenium Carrier	20.0				17.1	mg	REC:	86	(40%-110%)		
QC1206032540 712745005 DUP											
Selenium-79		U	5.48	U	11.0	pCi/L					03/28/2522:12
Uncert:			+/-23.1		+/-21.5		RPD:	0	N/A		
TPU:			+/-23.1		+/-21.5		RER:	0.34	(0-2)		
**Selenium Carrier	20.0		14.7		15.9	mg	REC:	80	(40%-110%)		
QC1206032541 LCS											

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **712612**

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date	Time
Rad Liquid Scintillation										
Batch 2763418										
Selenium-79	258			253	pCi/L	REC: 98.2	(75%-125%)			
	Uncert:			+/-26.5						
	TPU:			+/-27.0						
**Selenium Carrier	20.0			16.6	mg	REC: 83	(40%-110%)			

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

UX	Gamma Spectroscopy--Uncertain identification
U	Analyzed for but not detected above the MDL, MDA, MDC or LOD.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Spike Sample recovery is outside control limits.
Z	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
D	Results are reported from a diluted aliquot of sample.
E	Reported value is estimated due to interferences. See comment in narrative.
B	The analyte was detected in the associated method blank >/= MDC or >5% sample activity.
Y	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
O	Analyte failed to recover within LCS limits
H	Laboratory holding time exceeded before the sample was analyzed.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.