GEL Laboratories LLC
a member of The GEL Group INC

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

July 10, 2025

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

Re: SAF I25-019
Work Order: 728582
SDG: GEL728582

Dear Ms. Medley:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 12, 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: I25-019-030, I25-019-031, I25-019-032, I25-019-033, I25-019-040, I25-019-041, I25-019-043, I25-019-044, I25-019-045 and I25-019-047
Enclosures

problem solved

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Case Narrative

General Narrative
for
Central Plateau Cleanup Company (89223)
SAF I25-019
SDG: GEL728582

July 10, 2025

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary

Sample receipt

The sample(s) arrived at GEL Laboratories, LLC, Charleston, South Carolina on June 12, 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
728582001	B4M639
728582002	B4M640
728582003	B4M642
728582004	B4M643
728582005	B4M658
728582006	B4M659
728582007	B4M664
728582008	B4M666
728582009	B4M669
728582010	B4M673

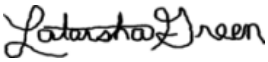
Case Narrative

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

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

Radiochemistry
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL728582
Work Order #: 728582

SMR_AM241_AEA

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_PUISO_AEA

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_UISO_AEA

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_I129LOWLEVEL_RAD

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_COMMON_GEA + SB-125CS-134K-40

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_SR_RAD_GPC

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.

Technical Information

Recounts
Sample 1206139884 (B4M662DUP) was recounted due to high MDC. The recount is reported.

SMR_PU241_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_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, 1206138586 (B4M662MS), 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

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.

Technical Information

Recounts
Sample 728582007 (B4M664) was recounted to verify sample results. The recount results are similar to the original results. Original results are reported.

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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Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I25-019-030**

PAGE 1 OF 1

Collector:	Mike Cowin/CPCCo	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-019	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, June 2025	**Logbook No.:**	HNF-N-506 -148-64	**Ice Chest No.:**	GWS-922
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	8819 5719568
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

Low Volume Wells. Do not use for QC.

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservation
B2M1639	N	W	JUN 11 2025	1010	1x60-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*
Mike Cowin/CPCCo		JUN 11 2025 1140	Janelle Zunke CPCC		JUN 11 2025 1140
Janelle Zunke CPCC		JUN 11 2025 1440	FEDEX		
		FedEx	Stacy Boone Stacy Boone		JUN 12 2025 920

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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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I25-019-031**

PAGE 1 OF 1

Collector:	Mike Cowin/CPCCo	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-019	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, June 2025	**Logbook No.:**	HNF-N-506 -148-64	**Ice Chest No.:**	
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	881953625664
Protocol:	SURV	**Priority:**	30 Days	**Offsite Property No.:**	N/A

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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
B2M1640	N	W	JUN 11 2025	0840	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*
Mike Cowin/CPCCo		JUN 11 2025 0940	~~Bob Parks / CPCC~~		JUN 11 2025 0940
Bob Parks / CPCC		JUN 11 2025 1400	FEDEX		
	FedEx		Stacy Boone		6-12-25 920
			Stacy Boone		

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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Central Plateau Cleanup Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I25-019-032 PAGE 1 OF 1

Collector: Mike Cowin/CPCCo	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: I25-019	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 901852
Project Title: AEA, June 2025	**Logbook No.:** HNF-N-506 -148-64	**Ice Chest No.:** gws-120
Shipped To (Lab): GEL Laboratories, LLC	**Method of Shipment:** Commercial Carrier	**Bill of Lading/Air Bill No.:** 881953629616
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

Low Volume Wells. Do not use for QC.

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservation
B4N642	N	W	JUN 11 2025	0915	1x60-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*
Mike Cowin/CPCCo		JUN 11 2025 0940	Bob Parks / CPCC		JUN 11 2025 0940
Bob Parks / CPCC		JUN 11 2025 1400	FEDEX Stacy Boone		JUN 12 2025 920
		FedEx	Stacy Boone		

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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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I25-019-033**

PAGE 1 OF 1

Collector:	Mike Cowin/CPCCo	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-019	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, June 2025	**Logbook No.:**	HNF-N-506 -148-64	**Ice Chest No.:**	GWS-120
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	881953625646
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

Low Volume Wells. Do not use for QC.

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservation
B4X643	N	W	JUN 11 2025	0915	1x60-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*
ke Cowin/CPCCo		JUN 11 2025 0940	Bob Parks / CPCC	Bob Park	JUN 11 2025 0940
Bob Parks / CPCC	Bob Park	JUN 11 2025 1400			
	FedEx		FedEx Stacy Boone Stacy Boone		JUN 12 2025 920

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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Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I25-019-040**

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Collector:	Mike Esparza / CPCC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-019	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, June 2025	**Logbook No.:**	HNF-N-506 146	**Ice Chest No.:**	JWS-086
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	881951564120
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
B4M658	N	W	JUN 11 2025	0835	1x250-mL G/P	SMR_C14_LSC	6 Months	None
B4M658	N	W	JUN 11 2025	0835	1x500-mL G/P	SMR_COMMON_GEA; SMR_SB-125CS-134K-40_GEA	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*
Mike Esparza / CPCC		JUN 11 2025 0900	~~Troy Bacon~~ CPCC	Troy Bacon	JUN 11 2025 0500
~~Troy Bacon~~ CPCC	Troy Bacon	JUN 11 2025 1400	FEDEX Stacy Boone		
		FedEx	Stacy Boone		JUN 12 2025 920

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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Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I25-019-041**

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Collector:	Mike Esparza / CPCC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-019	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, June 2025	**Logbook No.:**	HNF-N-506 146	**Ice Chest No.:**	GWS-299
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	881953278934
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
B4M659	N	W	JUN 11 2025	0825	1x250-mL G/P	SMR_C14_LSC	6 Months	None
B4M659	N	W	JUN 11 2025	0825	1x500-mL G/P	SMR_COMMON_GEA; SMR_SB-125CS-134K-40_GEA	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*
Mike Esparza / CPCC		JUN 11 2025 0900	Troy Bacon CPCC	Troy Bacon	JUN 11 2025 0900
Troy Bacon CPCC	Troy Bacon	JUN 11 2025 1400			
		FedEx	FEDEX Stacy Boone		
			Stacy Boone		JUN 12 2025 920

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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Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I25-019-043**

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Collector:	Kevin Patterson / CPCC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-019	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, June 2025	**Logbook No.:**	HNF-N-506 140	**Ice Chest No.:**	GWS-918
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	881947783015
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
B4M664	N	W	JUN 10 2025	1047	1x500-mL G/P	SMR_COMMON_GEA; SMR_SB-125CS-134K-40_GEA	6 Months	HNO3 to pH <2
B4M664	N	W	JUN 10 2025	1047	1x250-mL G/P	SMR_SE79_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*
Kevin Patterson / CPCC		JUN 10 2025 1117	Anthony Noggles / CPCC		JUN 10 2025 1117
Anthony Noggles / CPCC		JUN 10 2025 1140	SSU-1		JUN 10 2025 1140
SSU-1		JUN 11 2025	Anthony Noggles / CPCC		JUN 11 2025
Anthony Noggles / CPCC		JUN 11 2025 1400	FEDEX		
FedEx			Stacy Boone		JUN 12 2025 920
			Stacy Boone		

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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Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I25-019-044**

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Collector:	Kevin Patterson / CPCC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-019	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, June 2025	**Logbook No.:**	HNF-N-506 146	**Ice Chest No.:**	
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	8819 4770 8340
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 pr 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
B4M666	N	W	JUN 10 2025	1011	1x4-L G/P	SMR_I129LOWLEVEL_RAD	6 Months	None
B4M666	N	W	JUN 10 2025	1011	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*
Kevin Patterson / CPCC		JUN 10 2025 1017	Anthony Noggles / CPCC		JUN 10 2025 1117
Anthony Noggles / CPCC		JUN 10 2025 1140	SSU-1		JUN 10 2025 1140
SSU-1		JUN 11 2025 [illegible]	Anthony Noggles / CPCC		JUN 11 2025 632
Anthony Noggles / CPCC		JUN 11 2025 1400	FEDEX Stacy Boone		JUN 12 2025 920
FedEx			Stacy Boone		

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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Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I25-019-045**

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Collector:	Mike Esparza / CPCC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I25-019	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	AEA, June 2025	**Logbook No.:**	HNF-N-506 146	**Ice Chest No.:**	GWS-922
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	881957195686
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
B2M669	N	W	JUN 11 2025	1021	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*
Mike Esparza / CPCC		JUN 11 2025 1135	Anthony Noggles / CPCC		JUN 11 2025 1135
Anthony Noggles / CPCC		JUN 11 2025 1400	FEDEX Stacy Boone		JUN 12 2025 910
		FedEx			

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:

Printed On 4/1/2025 **FSR ID = FSR156904** Report Format: 02/29/2024

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728582

Central Plateau Cleanup Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I25-019-047 PAGE 1 OF 1

Collector: Mike Esparza / CPCC	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: I25-019	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 901852
Project Title: AEA, June 2025	**Logbook No.:** HNF-N-506 146	**Ice Chest No.:** gws-299
Shipped To (Lab): GEL Laboratories, LLC	**Method of Shipment:** Commercial Carrier	**Bill of Lading/Air Bill No.:** 8819 5327 8934
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
B4M673	N	W	JUN 11 2025	0927	2x1-L G/P	SMR_AM241_AEA; SMR_PU241_LSC; SMR_PUISO_AEA; SMR_UISO_AEA	6 Months	HNO3 to pH <2
B4M673	N	W	"	"	1x500-mL G/P	SMR_COMMON_GEA; SMR_SB-125CS-134K-40_GEA	6 Months	HNO3 to pH <2
B4M673	N	W	JUN 11 2025	0927	1x1-L G/P	SMR_SR_RAD_GPC	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*
Mike Esparza / CPCC		JUN 11 2025 0950	Troy Bacon CPCC	Troy Bacon	JUN 11 2025 0950
Troy Bacon CPCC	Troy Bacon	JUN 11 2025 1400	FEDEX		
		FedEx	Stacy Boone Stacy Boone		JUN 12 2025 920

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:

Printed On 4/10/2025 FSR ID = FSR156906 Report Format: 02/29/2024

GEL728582 July 10, 2025 Rev. 0

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CPRC | SDG/AR/COC/Work Order: 728582 | GEL PM: HS

Received By: Mary Bronz | Date Received at GEL: 6/12/25

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

IR Temp gun # 12124 · Daily Calibration Performed? (Y) N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
8819 5327 8934	1		8819 4770 8340	3	
4778 3015	4				
5155 4120	3				
5362 5666	2				
5719 5686	5				

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): 0 (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 HH Date 06/13/25

☐ 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

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 10 July 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 #: GEL728582
Work Order #: 728582

Product: **SMR_AM241_AEA**
Analytical Method: AM241CMISO_AEA
Analytical Procedure: GL-RAD-A-011 REV# 29
Analytical Batch: 2811450

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

GEL Sample ID#	Client Sample Identification
728582010	B4M673
1206136001	Method Blank (MB)
1206136002	Laboratory Control Sample (LCS)
1206138558	728276001(B4M652) Sample Duplicate (DUP)

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_PUISO_AEA**
Analytical Method: PUISO_AEA
Analytical Procedure: GL-RAD-A-011 REV# 29
Analytical Batch: 2811451

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

GEL Sample ID#	Client Sample Identification
728582010	B4M673
1206136004	Method Blank (MB)
1206136005	Laboratory Control Sample (LCS)
1206138567	728276001(B4M652) Sample Duplicate (DUP)

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_UISO_AEA**
Analytical Method: UISO_AEA
Analytical Procedure: GL-RAD-A-011 REV# 29
Analytical Batch: 2811453

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

GEL Sample ID#	Client Sample Identification
728582010	B4M673
1206136010	Method Blank (MB)
1206136011	Laboratory Control Sample (LCS)
1206138592	728276001(B4M652) Sample Duplicate (DUP)

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_I129LOWLEVEL_RAD**
Analytical Method: DOE EML HASL-300,I-01 Modified
Analytical Procedure: GL-RAD-A-006 REV# 24
Analytical Batch: 2812376

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

GEL Sample ID#	Client Sample Identification
728582008	B4M666
1206138002	Method Blank (MB)
1206138003	728276003(B4M671) Sample Duplicate (DUP)
1206138004	728276003(B4M671) Matrix Spike (MS)
1206138005	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_COMMON_GEA + SB-125CS-134K-40**
Analytical Method: GEA
Analytical Procedure: GL-RAD-A-013 REV# 29
Analytical Batch: 2819960

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

GEL Sample ID#	Client Sample Identification
728582005	B4M658
728582006	B4M659
728582007	B4M664
728582010	B4M673
1206152674	Method Blank (MB)
1206152675	730090005(NonSDG) Sample Duplicate (DUP)
1206152676	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_SR_RAD_GPC**
Analytical Method: SR_RAD_GPC
Analytical Procedure: GL-RAD-A-004 REV# 23
Analytical Batch: 2813217

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

GEL Sample ID#	Client Sample Identification
728582010	B4M673
1206139883	Method Blank (MB)
1206139884	728276002(B4M662) Sample Duplicate (DUP)
1206139885	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.

Technical Information

Recounts
Sample 1206139884 (B4M662DUP) was recounted due to high MDC. The recount is reported.

Product: **SMR_PU241_LSC**
Analytical Method: PU241_LSC
Analytical Procedure: GL-RAD-A-035 REV# 26
Analytical Batch: 2811452

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

GEL Sample ID#	Client Sample Identification
728582010	B4M673
1206136007	Method Blank (MB)
1206136008	Laboratory Control Sample (LCS)
1206138571	728276001(B4M652) Sample Duplicate (DUP)

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_C14_LSC**
Analytical Method: C14_LSC
Analytical Procedure: GL-RAD-A-003 REV# 18
Analytical Batch: 2812603

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

GEL Sample ID#	Client Sample Identification
728582005	B4M658
728582006	B4M659
728582009	B4M669
1206138584	Method Blank (MB)
1206138585	728276002(B4M662) Sample Duplicate (DUP)
1206138586	728276002(B4M662) Matrix Spike (MS)
1206138587	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.

Miscellaneous Information

Additional Comments
The matrix spike, 1206138586 (B4M662MS), 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: 2814170

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

GEL Sample ID#	Client Sample Identification
728582001	B4M639
728582002	B4M640
728582003	B4M642
728582004	B4M643
728582008	B4M666
1206141890	Method Blank (MB)
1206141891	728276003(B4M671) Sample Duplicate (DUP)
1206141892	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
728582001 (B4M639), 728582003 (B4M642) and 728582004 (B4M643) Aliquots were reduced due to limited sample volume.

Product: **SMR_SE79_LSC**
Analytical Method: SE79_LSC
Analytical Procedure: GL-RAD-A-031 REV# 14
Analytical Batch: 2814175

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

GEL Sample ID#	Client Sample Identification
728582007	B4M664
1206141899	Method Blank (MB)
1206141900	728276003(B4M671) Sample Duplicate (DUP)
1206141901	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.

Technical Information

Recounts
Sample 728582007 (B4M664) was recounted to verify sample results. The recount results are similar to the original results. Original results are reported.

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: GEL728582 GEL Work Order: 728582

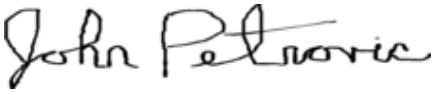
The Qualifiers in this report are defined as follows:

B The analyte was detected in the associated method blank >/= MDC or >5% sample activity.
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

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: John Petrovic**

Date: 09 JUL 2025 **Title: Data Validator II**

Sample Data Summary

Rad
Certificate of Analysis
Sample Summary

SDG Number:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582001**	**Date Collected:**	**06/11/2025 10:10**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M639**			**Prep Basis:**	**"As Received"**
Batch ID:	**2814170**	**Method:**	**TC99_LSC**	**SOP Ref:**	**GL-RAD-A-059**
Run Date:	**07/01/2025 14:09**	**Analyst:**	**GS3**	**Instrument:**	**LSCCOPPER**
Data File:	**E2814170.xls**	**Aliquot:**	**50.1 mL**	**Count Time:**	**60 min**
Prep Batch:	**2814170**	**Prep Method:**	**DOE EML HASL-300, Tc-02-**		
Prep Date:	**06/18/2025 09:57**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14133-76-7	Technetium-99		112	pCi/L	+/-31.3	33.7	49.7	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Technetium-99m Tracer	5.61E+05	5.85E+05	CPM	96	(30%-105%)

Comments:

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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582002**	**Date Collected:**	**06/11/2025 08:40**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M640**			**Prep Basis:**	**"As Received"**
Batch ID:	**2814170**	**Method:**	**TC99_LSC**	**SOP Ref:**	**GL-RAD-A-059**
Run Date:	**07/01/2025 15:12**	**Analyst:**	**GS3**	**Instrument:**	**LSCCOPPER**
Data File:	**E2814170.xls**	**Aliquot:**	**100.9 mL**	**Count Time:**	**60 min**
Prep Batch:	**2814170**	**Prep Method:**	**DOE EML HASL-300, Tc-02-**		
Prep Date:	**06/18/2025 09:57**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14133-76-7	Technetium-99	U	4.90	pCi/L	+/-13.8	13.8	23.5	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Technetium-99m Tracer	5.82E+05	5.85E+05	CPM	99.5	(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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582003**	**Date Collected:**	**06/11/2025 09:15**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M642**			**Prep Basis:**	**"As Received"**
Batch ID:	**2814170**	**Method:**	**TC99_LSC**	**SOP Ref:**	**GL-RAD-A-059**
Run Date:	**07/01/2025 16:15**	**Analyst:**	**GS3**	**Instrument:**	**LSCCOPPER**
Data File:	**E2814170.xls**	**Aliquot:**	**51.4 mL**	**Count Time:**	**60 min**
Prep Batch:	**2814170**	**Prep Method:**	**DOE EML HASL-300, Tc-02-**		
Prep Date:	**06/18/2025 09:57**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14133-76-7	Technetium-99	U	11.0	pCi/L	+/-26.5	26.5	45.0	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Technetium-99m Tracer	5.92E+05	5.85E+05	CPM	101	(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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582004**	**Date Collected:**	**06/11/2025 09:15**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M643**			**Prep Basis:**	**"As Received"**
Batch ID:	**2814170**	**Method:**	**TC99_LSC**	**SOP Ref:**	**GL-RAD-A-059**
Run Date:	**07/01/2025 17:17**	**Analyst:**	**GS3**	**Instrument:**	**LSCCOPPER**
Data File:	**E2814170.xls**	**Aliquot:**	**50.3 mL**	**Count Time:**	**60 min**
Prep Batch:	**2814170**	**Prep Method:**	**DOE EML HASL-300, Tc-02-**		
Prep Date:	**06/18/2025 09:57**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14133-76-7	Technetium-99	U	-10.9	pCi/L	+/-28.1	28.1	48.5	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Technetium-99m Tracer	5.71E+05	5.85E+05	CPM	97.6	(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:	GEL728582	**Client:**	CPRC003	**Project:**	CPRC0I25019
Lab Sample ID:	728582005	**Date Collected:**	06/11/2025 08:25	**Matrix:**	WATER
		Date Received:	06/12/2025 09:20		
Client ID:	B4M658			**Prep Basis:**	"As Received"
Batch ID:	2819960	**Method:**	GEA	**SOP Ref:**	GL-RAD-A-013
Run Date:	07/08/2025 15:47	**Analyst:**	MXR1	**Instrument:**	GAM40
Data File:	G728582005.CNF;1	**Aliquot:**	0.5005 L	**Count Time:**	120 min
Prep Batch:	2819960	**Prep Method:**	EPA 901.1		
Prep Date:	07/03/2025 10:20				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
13966-00-2	Potassium-40	U	-64.8	pCi/L	+/-82.2	87.5	163	
10198-40-0	Cobalt-60	U	-4.20	pCi/L	+/-4.45	4.86	6.91	
14234-35-6	Antimony-125	U	-8.19	pCi/L	+/-11.0	11.6	19.2	
13967-70-9	Cesium-134	U	-1.66	pCi/L	+/-4.43	4.50	8.27	
10045-97-3	Cesium-137	U	3.49	pCi/L	+/-5.03	5.28	10.6	15.0
14683-23-9	Europium-152	U	2.57	pCi/L	+/-12.1	12.1	23.9	
15585-10-1	Europium-154	U	3.18	pCi/L	+/-14.1	14.2	31.0	
14391-16-3	Europium-155	U	5.77	pCi/L	+/-16.0	16.2	29.9	

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:	GEL728582	**Client:**	CPRC003	**Project:**	CPRC0I25019
Lab Sample ID:	728582005	**Date Collected:**	06/11/2025 08:25	**Matrix:**	WATER
		Date Received:	06/12/2025 09:20		
Client ID:	B4M658			**Prep Basis:**	"As Received"
Batch ID:	2812603	**Method:**	C14_LSC	**SOP Ref:**	GL-RAD-A-003
Run Date:	06/26/2025 22:43	**Analyst:**	MG7	**Instrument:**	LSCMOCHA
Data File:	C2812603.xls	**Aliquot:**	100.74 mL	**Count Time:**	15 min
Prep Batch:	2812603	**Prep Method:**	EPA EERF C-01 Modified		
Prep Date:	06/22/2025 18:20				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14762-75-5	Carbon-14	U	34.4	pCi/L	+/-22.4	23.3	36.6	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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582006**	**Date Collected:**	**06/11/2025 08:25**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M659**			**Prep Basis:**	**"As Received"**
Batch ID:	**2819960**	**Method:**	**GEA**	**SOP Ref:**	**GL-RAD-A-013**
Run Date:	**07/08/2025 15:48**	**Analyst:**	**MXR1**	**Instrument:**	**GAM43**
Data File:	**G728582006.CNF;1**	**Aliquot:**	**0.5001 L**	**Count Time:**	**120 min**
Prep Batch:	**2819960**	**Prep Method:**	**EPA 901.1**		
Prep Date:	**07/03/2025 10:20**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
13966-00-2	Potassium-40	U	-68.3	pCi/L	+/-78.8	84.9	143	
10198-40-0	Cobalt-60	U	-3.14	pCi/L	+/-4.42	4.65	7.32	
14234-35-6	Antimony-125	U	7.97	pCi/L	+/-12.8	13.3	25.7	
13967-70-9	Cesium-134	U	4.79	pCi/L	+/-6.10	6.48	11.3	
10045-97-3	Cesium-137	U	2.34	pCi/L	+/-3.94	4.08	8.77	15.0
14683-23-9	Europium-152	U	1.10	pCi/L	+/-12.0	12.1	23.0	
15585-10-1	Europium-154	U	1.92	pCi/L	+/-13.8	13.8	29.7	
14391-16-3	Europium-155	U	3.87	pCi/L	+/-13.3	13.5	25.5	

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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582006**	**Date Collected:**	**06/11/2025 08:25**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M659**			**Prep Basis:**	**"As Received"**
Batch ID:	**2812603**	**Method:**	**C14_LSC**	**SOP Ref:**	**GL-RAD-A-003**
Run Date:	**06/26/2025 22:59**	**Analyst:**	**MG7**	**Instrument:**	**LSCMOCHA**
Data File:	**C2812603.xls**	**Aliquot:**	**100.16 mL**	**Count Time:**	**15 min**
Prep Batch:	**2812603**	**Prep Method:**	**EPA EERF C-01 Modified**		
Prep Date:	**06/22/2025 18:20**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14762-75-5	Carbon-14	U	-5.39	pCi/L	+/-20.7	20.7	36.8	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.

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Certificate of Analysis
Sample Summary

SDG Number:	GEL728582	**Client:**	CPRC003	**Project:**	CPRC0I25019
Lab Sample ID:	728582007	**Date Collected:**	06/10/2025 10:47	**Matrix:**	WATER
		Date Received:	06/12/2025 09:20		
Client ID:	B4M664			**Prep Basis:**	"As Received"
Batch ID:	2819960	**Method:**	GEA	**SOP Ref:**	GL-RAD-A-013
Run Date:	07/08/2025 15:51	**Analyst:**	MXR1	**Instrument:**	GAM29
Data File:	G728582007.CNF;1	**Aliquot:**	0.4963 L	**Count Time:**	120 min
Prep Batch:	2819960	**Prep Method:**	EPA 901.1		
Prep Date:	07/03/2025 10:20				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
13966-00-2	Potassium-40	U	-39.5	pCi/L	+/-47.8	51.2	82.9	
10198-40-0	Cobalt-60	U	-1.97	pCi/L	+/-3.54	3.66	6.44	
14234-35-6	Antimony-125	U	3.61	pCi/L	+/-8.29	8.46	15.8	
13967-70-9	Cesium-134	U	-4.47	pCi/L	+/-4.54	4.99	6.98	
10045-97-3	Cesium-137	U	1.42	pCi/L	+/-3.63	3.69	7.36	15.0
14683-23-9	Europium-152	U	1.09	pCi/L	+/-9.27	9.28	18.0	
15585-10-1	Europium-154	U	-1.54	pCi/L	+/-11.4	11.4	22.7	
14391-16-3	Europium-155	U	1.33	pCi/L	+/-12.3	12.4	22.0	

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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582007**	**Date Collected:**	**06/10/2025 10:47**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M664**			**Prep Basis:**	**"As Received"**
Batch ID:	**2814175**	**Method:**	**SE79_LSC**	**SOP Ref:**	**GL-RAD-A-031**
Run Date:	**06/27/2025 08:52**	**Analyst:**	**KH2**	**Instrument:**	**LSCCOPPER**
Data File:	**SE2814175.xls**	**Aliquot:**	**0.1021 L**	**Count Time:**	**25 min**
Prep Batch:	**2814175**	**Prep Method:**	**NERC ORD**		
Prep Date:	**06/17/2025 11:23**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
15758-45-9	Selenium-79		52.4	pCi/L	+/-19.3	20.3	30.8	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Selenium Carrier	15.5	20.0	mg	77.5	(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.

Rad

Certificate of Analysis
Sample Summary

SDG Number:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582008**	**Date Collected:**	**06/10/2025 10:11**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M666**			**Prep Basis:**	**"As Received"**
Batch ID:	**2812376**	**Method:**	**DOE EML HASL-300,I-01 Mo**	**SOP Ref:**	**GL-RAD-A-006**
Run Date:	**06/27/2025 18:20**	**Analyst:**	**SF1**	**Instrument:**	**GAM05**
Data File:	**I728582008.CNF;1**	**Aliquot:**	**1.6058 L**	**Count Time:**	**120 min**
Prep Batch:	**2812376**	**Prep Method:**	**DOE EML HASL-300,I-01 M**		
Prep Date:	**06/26/2025 09:14**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
15046-84-1	Iodine-129		1.91	pCi/L	+/-0.792	0.815	0.644	1.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits

Comments:

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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582008**	**Date Collected:**	**06/10/2025 10:11**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M666**			**Prep Basis:**	**"As Received"**
Batch ID:	**2814170**	**Method:**	**TC99_LSC**	**SOP Ref:**	**GL-RAD-A-059**
Run Date:	**07/01/2025 18:19**	**Analyst:**	**GS3**	**Instrument:**	**LSCCOPPER**
Data File:	**E2814170.xls**	**Aliquot:**	**102.6 mL**	**Count Time:**	**42.4500007629395 min**
Prep Batch:	**2814170**	**Prep Method:**	**DOE EML HASL-300, Tc-02-**		
Prep Date:	**06/18/2025 09:57**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14133-76-7	Technetium-99		1910	pCi/L	+/-41.8	219	25.5	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Technetium-99m Tracer	5.83E+05	5.85E+05	CPM	99.7	(30%-105%)

Comments:

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:	GEL728582	**Client:**	CPRC003	**Project:**	CPRC0I25019
Lab Sample ID:	728582009	**Date Collected:**	06/11/2025 10:21	**Matrix:**	WATER
		Date Received:	06/12/2025 09:20		
Client ID:	B4M669			**Prep Basis:**	"As Received"
Batch ID:	2812603	**Method:**	C14_LSC	**SOP Ref:**	GL-RAD-A-003
Run Date:	06/26/2025 23:16	**Analyst:**	MG7	**Instrument:**	LSCMOCHA
Data File:	C2812603.xls	**Aliquot:**	100.1 mL	**Count Time:**	15 min
Prep Batch:	2812603	**Prep Method:**	EPA EERF C-01 Modified		
Prep Date:	06/22/2025 18:20				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14762-75-5	Carbon-14	U	-15.4	pCi/L	+/-20.3	20.3	36.8	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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582010**	**Date Collected:**	**06/11/2025 09:27**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M673**			**Prep Basis:**	**"As Received"**
Batch ID:	**2811450**	**Method:**	**AM241CMISO_AEA**	**SOP Ref:**	**GL-RAD-A-011**
Run Date:	**06/16/2025 11:40**	**Analyst:**	**KG3**	**Instrument:**	**1083**
Data File:	**S0728582010_AM.1A.gcnf**	**Aliquot:**	**0.40244 L**	**Count Time:**	**239.9998 min**
Prep Batch:	**2811450**	**Prep Method:**	**DOE EML HASL-300, Am-05**		
Prep Date:	**06/13/2025 10:48**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14596-10-2	Americium-241	U	-0.00387	pCi/L	+/-0.0582	0.0582	0.136	1.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Americium-243 Tracer	3.48	5.17	pCi/L	67.3	(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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582010**	**Date Collected:**	**06/11/2025 09:27**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M673**			**Prep Basis:**	**"As Received"**
Batch ID:	**2811451**	**Method:**	**PUISO_AEA**	**SOP Ref:**	**GL-RAD-A-011**
Run Date:	**06/16/2025 17:27**	**Analyst:**	**KG3**	**Instrument:**	**1075**
Data File:	**S0728582010_PU.1A.gcnf**	**Aliquot:**	**0.40244 L**	**Count Time:**	**720 min**
Prep Batch:	**2811451**	**Prep Method:**	**DOE EML HASL-300, Pu-11-**		
Prep Date:	**06/13/2025 10:48**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
13981-16-3	Plutonium-238	U	-0.0107	pCi/L	+/-0.0170	0.0170	0.0461	1.00
OER-100-70	Plutonium-239/240	U	0.00770	pCi/L	+/-0.0228	0.0228	0.0404	1.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Plutonium-242 Tracer	4.78	4.78	pCi/L	100	(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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582010**	**Date Collected:**	**06/11/2025 09:27**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M673**			**Prep Basis:**	**"As Received"**
Batch ID:	**2811452**	**Method:**	**PU241_LSC**	**SOP Ref:**	**GL-RAD-A-035**
Run Date:	**06/27/2025 22:07**	**Analyst:**	**KG3**	**Instrument:**	**LSCONYX**
Data File:	**PU2811452.xls**	**Aliquot:**	**0.40244 L**	**Count Time:**	**15 min**
Prep Batch:	**2811452**	**Prep Method:**	**DOE EML HASL-300, Pu-11-**		
Prep Date:	**06/13/2025 10:48**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
14119-32-5	Plutonium-241	U	-2.28	pCi/L	+/-7.82	7.82	14.4	25.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Plutonium-242 Tracer	4.78	4.78	pCi/L	100	(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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582010**	**Date Collected:**	**06/11/2025 09:27**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M673**			**Prep Basis:**	**"As Received"**
Batch ID:	**2811453**	**Method:**	**UISO_AEA**	**SOP Ref:**	**GL-RAD-A-011**
Run Date:	**06/16/2025 11:32**	**Analyst:**	**KG3**	**Instrument:**	**1006**
Data File:	**S0728582010_UU.1A.gcnf**	**Aliquot:**	**0.40244 L**	**Count Time:**	**240 min**
Prep Batch:	**2811453**	**Prep Method:**	**DOE EML HASL-300, U-02-R**		
Prep Date:	**06/13/2025 10:48**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
U-233/234 *13968-55-3/13966-29-5*	Uranium-233/234		1.85	pCi/L	+/-0.368	0.454	0.149	1.00
U-235/236 *15117-96-1/13982-70-2*	Uranium-235/236	U	0.108	pCi/L	+/-0.110	0.111	0.109	1.00
7440-61-1	Uranium-238		1.37	pCi/L	+/-0.314	0.370	0.0881	1.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Uranium-232 Tracer	3.95	4.83	pCi/L	81.7	(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:	**GEL728582**	**Client:**	**CPRC003**	**Project:**	**CPRC0I25019**
Lab Sample ID:	**728582010**	**Date Collected:**	**06/11/2025 09:27**	**Matrix:**	**WATER**
		Date Received:	**06/12/2025 09:20**		
Client ID:	**B4M673**			**Prep Basis:**	**"As Received"**
Batch ID:	**2813217**	**Method:**	**SR_RAD_GPC**	**SOP Ref:**	**GL-RAD-A-004**
Run Date:	**06/18/2025 12:52**	**Analyst:**	**CH7**	**Instrument:**	**PIC4D**
Data File:	**S2813217r1.xls**	**Aliquot:**	**302.34 mL**	**Count Time:**	**80 min**
Prep Batch:	**2813217**	**Prep Method:**	**EPA 905.0 Modified/DOE RP5**		
Prep Date:	**06/16/2025 12:15**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
10098-97-2	Strontium-90	U	1.06	pCi/L	+/-1.17	1.19	1.96	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Strontium Carrier	3.30	4.25	mg	77.6	(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.

Rad

Certificate of Analysis
Sample Summary

SDG Number:	GEL728582	**Client:**	CPRC003	**Project:**	CPRC0I25019
Lab Sample ID:	728582010	**Date Collected:**	06/11/2025 09:27	**Matrix:**	WATER
		Date Received:	06/12/2025 09:20		
Client ID:	B4M673			**Prep Basis:**	"As Received"
Batch ID:	2819960	**Method:**	GEA	**SOP Ref:**	GL-RAD-A-013
Run Date:	07/08/2025 16:05	**Analyst:**	MXR1	**Instrument:**	GAM41
Data File:	G728582010.CNF;1	**Aliquot:**	0.5015 L	**Count Time:**	120 min
Prep Batch:	2819960	**Prep Method:**	EPA 901.1		
Prep Date:	07/03/2025 10:20				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
13966-00-2	Potassium-40	U	20.7	pCi/L	+/-75.7	76.3	169	
10198-40-0	Cobalt-60	U	1.59	pCi/L	+/-5.76	5.80	12.6	
14234-35-6	Antimony-125	U	0.826	pCi/L	+/-10.6	10.6	21.1	
13967-70-9	Cesium-134	U	-2.53	pCi/L	+/-4.80	4.94	8.24	
10045-97-3	Cesium-137	U	-1.40	pCi/L	+/-5.14	5.18	9.42	15.0
14683-23-9	Europium-152	U	-6.04	pCi/L	+/-10.8	11.2	19.8	
15585-10-1	Europium-154	U	12.3	pCi/L	+/-16.5	17.5	39.0	
14391-16-3	Europium-155	U	-2.41	pCi/L	+/-9.85	9.91	17.9	

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.

Quality Control Data

GEL LABORATORIES LLC
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QC Summary

Report Date: July 9, 2025

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

Workorder: **728582**

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date Time
Rad Alpha Spec									
Batch 2811450									
QC1206136001 MB									
Americium-241			U	0.0394	pCi/L			KG3	06/16/2511:40
	Uncert:			+/-0.0568					
	TPU:			+/-0.0570					
**Americium-243 Tracer	5.15			4.76	pCi/L	REC: 93	(30%-105%)		
	Uncert:			+/-0.529					
	TPU:			+/-0.819					
QC1206136002 LCS									
Americium-241	4.81			4.66	pCi/L	REC: 96.9	(80%-120%)		
	Uncert:			+/-0.556					
	TPU:			+/-0.822					
**Americium-243 Tracer	5.15			4.13	pCi/L	REC: 80	(30%-105%)		
	Uncert:			+/-0.581					
	TPU:			+/-0.887					
QC1206138558 728276001 DUP									
Americium-241	U	-0.0203	U	0.00128	pCi/L				
	Uncert:	+/-0.0471		+/-0.0945		RPD: 0	N/A		
	TPU:	+/-0.0472		+/-0.0947		RER: 0.4	(0-2)		
**Americium-243 Tracer	5.17	3.43		2.59	pCi/L	REC: 50	(30%-105%)		
	Uncert:	+/-0.647		+/-0.800					
	TPU:	+/-0.975		+/-1.18					
Batch 2811451									
QC1206136004 MB									
Plutonium-238			U	-0.00265	pCi/L			KG3	06/16/2517:27
	Uncert:			+/-0.0378					
	TPU:			+/-0.0378					
Plutonium-239/240			U	0.00862	pCi/L				
	Uncert:			+/-0.0255					
	TPU:			+/-0.0255					
**Plutonium-242 Tracer	4.77			4.17	pCi/L	REC: 88	(30%-105%)		
	Uncert:			+/-0.320					
	TPU:			+/-0.521					
QC1206136005 LCS									
Plutonium-238			U	0.00161	pCi/L				06/16/2517:27
	Uncert:			+/-0.0196					
	TPU:			+/-0.0196					
Plutonium-239/240	5.07			4.77	pCi/L	REC: 94.1	(80%-120%)		
	Uncert:			+/-0.325					
	TPU:			+/-0.528					
**Plutonium-242 Tracer	4.77			3.81	pCi/L	REC: 80	(30%-105%)		
	Uncert:			+/-0.326					
	TPU:			+/-0.528					
QC1206138567 728276001 DUP									
Plutonium-238	U	0.0173	U	-0.00374	pCi/L				

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QC Summary

Workorder: **728582**

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date Time
Rad Alpha Spec									
Batch 2811451									
	Uncert:	+/-0.0401		+/-0.0145					
	TPU:	+/-0.0401		+/-0.0145		RPD: 0	N/A		
						RER: 0.967	(0-2)		
Plutonium-239/240		U -0.0254	U	-0.00457	pCi/L				
	Uncert:	+/-0.0270		+/-0.0241		RPD: 0	N/A		
	TPU:	+/-0.0270		+/-0.0241		RER: 1.13	(0-2)		
**Plutonium-242 Tracer	4.78	4.33		4.09	pCi/L	REC: 86	(30%-105%)		
	Uncert:	+/-0.315		+/-0.310					
	TPU:	+/-0.514		+/-0.509					
Batch 2811452									
QC1206136007 MB									
Plutonium-241			U	8.14	pCi/L			KG3	06/27/2522:23
	Uncert:			+/-9.86					
	TPU:			+/-9.98					
**Plutonium-242 Tracer	4.77			4.17	pCi/L	REC: 88	(30%-105%)		
	Uncert:			+/-0.320					
	TPU:			+/-0.521					
QC1206136008 LCS									
Plutonium-241	445			404	pCi/L	REC: 90.8	(80%-120%)		06/27/2522:57
	Uncert:			+/-27.8					
	TPU:			+/-80.9					
**Plutonium-242 Tracer	4.77			3.57	pCi/L	REC: 75	(30%-105%)		
	Uncert:			+/-0.333					
	TPU:			+/-0.537					
QC1206138571 728276001 DUP									
Plutonium-241		U 0.880	U	0.592	pCi/L				06/27/2522:40
	Uncert:	+/-8.76		+/-9.25		RPD: 0	N/A		
	TPU:	+/-8.76		+/-9.25		RER: 0.0443	(0-2)		
**Plutonium-242 Tracer	4.78	4.33		4.09	pCi/L	REC: 86	(30%-105%)		
	Uncert:	+/-0.315		+/-0.310					
	TPU:	+/-0.514		+/-0.509					
Batch 2811453									
QC1206136010 MB									
Uranium-233/234			U	0.0182	pCi/L			KG3	06/16/2511:50
	Uncert:			+/-0.0675					
	TPU:			+/-0.0676					
Uranium-235/236			U	-0.00793	pCi/L				
	Uncert:			+/-0.0351					
	TPU:			+/-0.0351					
Uranium-238			U	0.000535	pCi/L				
	Uncert:			+/-0.0396					
	TPU:			+/-0.0397					
**Uranium-232 Tracer	4.82			4.05	pCi/L	REC: 84	(30%-105%)		
	Uncert:			+/-0.501					
	TPU:			+/-0.789					
QC1206136011 LCS									
Uranium-233/234				6.47	pCi/L				06/16/2511:32
	Uncert:			+/-0.603					
	TPU:			+/-1.04					

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QC Summary

Workorder: 728582

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date Time
Rad Alpha Spec									
Batch 2811453									
Uranium-235/236				0.196	pCi/L				
Uncert:				+/-0.122					
TPU:				+/-0.124					
Uranium-238	6.65			6.83	pCi/L	REC: 103	(80%-120%)		
Uncert:				+/-0.617					
TPU:				+/-1.08					
**Uranium-232 Tracer	4.82			4.63	pCi/L	REC: 96	(30%-105%)		
Uncert:				+/-0.524					
TPU:				+/-0.819					
QC1206138592 728276001 DUP									
Uranium-233/234		2.45		2.78	pCi/L				06/16/2511:50
Uncert:		+/-0.395		+/-0.392		RPD: 13	(0%-20%)		
TPU:		+/-0.519		+/-0.534		RER: 0.867	(0-2)		
Uranium-235/236		0.230		0.196	pCi/L				
Uncert:		+/-0.142		+/-0.134		RPD: 16	(0% - 100%)		
TPU:		+/-0.146		+/-0.137		RER: 0.332	(0-2)		
Uranium-238		1.97		2.12	pCi/L				
Uncert:		+/-0.355		+/-0.344		RPD: 7	(0%-20%)		
TPU:		+/-0.445		+/-0.439		RER: 0.453	(0-2)		
**Uranium-232 Tracer	4.83	4.47		3.85	pCi/L	REC: 80	(30%-105%)		
Uncert:		+/-0.555		+/-0.518					
TPU:		+/-0.859		+/-0.811					
Rad Gamma Spec									
Batch 2812376									
QC1206138002 MB									
Iodine-129			U	-0.0506	pCi/L			SF1	06/28/2516:14
Uncert:				+/-0.131					
TPU:				+/-0.133					
QC1206138003 728276003 DUP									
Iodine-129		2.01		3.11	pCi/L				06/28/2516:16
Uncert:		+/-0.962		+/-0.882		RPD: 43	(0% - 100%)		
TPU:		+/-0.983		+/-0.935		RER: 1.58	(0-2)		
QC1206138004 728276003 MS									
Iodine-129	38.9	2.01		38.0	pCi/L	REC: 92.6	(75%-125%)		06/27/2517:01
Uncert:		+/-0.962		+/-3.26					
TPU:		+/-0.983		+/-4.99					
QC1206138005 LCS									
Iodine-129	28.8			28.8	pCi/L	REC: 100	(80%-120%)		06/27/2516:52
Uncert:				+/-2.78					
TPU:				+/-4.00					
Batch 2819960									
QC1206152674 MB									
Antimony-125			U	2.16	pCi/L			MXR1	07/09/2508:18
Uncert:				+/-7.20					
TPU:				+/-7.27					
Cesium-134			U	2.18	pCi/L				
Uncert:				+/-3.71					
TPU:				+/-3.84					
Cesium-137			U	-1.46	pCi/L				

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QC Summary

Workorder: 728582

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date Time
Rad Gamma Spec									
Batch 2819960									
	Uncert:			+/-3.24					
	TPU:			+/-3.31					
Cobalt-60			U	-1.43	pCi/L				
	Uncert:			+/-3.64					
	TPU:			+/-3.70					
Europium-152			U	-0.902	pCi/L				
	Uncert:			+/-9.10					
	TPU:			+/-9.11					
Europium-154			U	-3.62	pCi/L				
	Uncert:			+/-9.94					
	TPU:			+/-10.1					
Europium-155			U	-2.08	pCi/L				
	Uncert:			+/-9.04					
	TPU:			+/-9.09					
Potassium-40			U	-56.6	pCi/L				
	Uncert:			+/-51.0					
	TPU:			+/-57.3					
QC1206152675 730090005 DUP									
Antimony-125	U	6.19	U	6.78	pCi/L				07/09/2508:22
	Uncert:	+/-9.46		+/-13.2		RPD:	0	N/A	
	TPU:	+/-9.88		+/-13.6		RER:	0.0683	(0-2)	
Cesium-134	U	-0.607	U	-1.70	pCi/L				
	Uncert:	+/-4.29		+/-5.09		RPD:	0	N/A	
	TPU:	+/-4.30		+/-5.15		RER:	0.32	(0-2)	
Cesium-137	U	-1.29	U	-1.44	pCi/L				
	Uncert:	+/-3.30		+/-4.90		RPD:	0	N/A	
	TPU:	+/-3.36		+/-4.94		RER:	0.0472	(0-2)	
Cobalt-60	U	2.49	U	0.679	pCi/L				
	Uncert:	+/-3.48		+/-5.60		RPD:	0	N/A	
	TPU:	+/-3.66		+/-5.61		RER:	0.528	(0-2)	
Europium-152	U	-2.66	U	6.90	pCi/L				
	Uncert:	+/-11.3		+/-20.0		RPD:	0	N/A	
	TPU:	+/-11.3		+/-20.2		RER:	0.808	(0-2)	
Europium-154	U	-9.03	U	-6.24	pCi/L				
	Uncert:	+/-9.51		+/-11.0		RPD:	0	N/A	
	TPU:	+/-10.4		+/-11.4		RER:	0.355	(0-2)	
Europium-155	U	2.23	U	5.98	pCi/L				
	Uncert:	+/-12.1		+/-17.1		RPD:	0	N/A	
	TPU:	+/-12.1		+/-17.3		RER:	0.348	(0-2)	
Potassium-40	U	-12.4	U	-95.1	pCi/L				
	Uncert:	+/-74.7		+/-86.4		RPD:	0	N/A	
	TPU:	+/-75.0		+/-97.0		RER:	1.32	(0-2)	
QC1206152676 LCS									
Americium-241	1.08E+05			1.11E+05	pCi/L	REC:	103	(80%-120%)	07/09/2508:24
	Uncert:			+/-1710					
	TPU:			+/-12000					
Antimony-125			U	-36.7	pCi/L				
	Uncert:			+/-283					
	TPU:			+/-283					
Cesium-134			U	-24.6	pCi/L				

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QC Summary

Workorder: 728582

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date Time
Rad Gamma Spec									
Batch 2819960									
	Uncert:			+/-77.7					
	TPU:			+/-78.5					
Cesium-137	34800			35000	pCi/L	REC: 100	(80%-120%)		
	Uncert:			+/-643					
	TPU:			+/-3040					
Cobalt-60	13200			13500	pCi/L	REC: 103	(80%-120%)		
	Uncert:			+/-478					
	TPU:			+/-1290					
Europium-152			U	-42.6	pCi/L				
	Uncert:			+/-259					
	TPU:			+/-260					
Europium-154			U	-10.1	pCi/L				
	Uncert:			+/-132					
	TPU:			+/-132					
Europium-155			U	200	pCi/L				
	Uncert:			+/-246					
	TPU:			+/-263					
Potassium-40			U	283	pCi/L				
	Uncert:			+/-471					
	TPU:			+/-488					
Rad Gas Flow									
Batch 2813217									
QC1206139883 MB									
Strontium-90			U	1.14	pCi/L			CH7	06/18/2512:52
	Uncert:			+/-1.18					
	TPU:			+/-1.21					
**Strontium Carrier	4.25			2.20	mg	REC: 52	(40%-110%)		
QC1206139884 728276002 DUP									
Strontium-90	U	0.608	U	-0.0736	pCi/L				06/18/2516:25
	Uncert:	+/-0.919		+/-0.806		RPD: 0	N/A		
	TPU:	+/-0.929		+/-0.806		RER: 1.09	(0-2)		
**Strontium Carrier	4.25	3.50		3.10	mg	REC: 73	(40%-110%)		
QC1206139885 LCS									
Strontium-90	70.2			65.4	pCi/L	REC: 93.2	(80%-120%)		06/18/2512:52
	Uncert:			+/-4.35					
	TPU:			+/-15.8					
**Strontium Carrier	4.25			3.30	mg	REC: 78	(40%-110%)		
Rad Liquid Scintillation									
Batch 2812603									
QC1206138584 MB									
Carbon-14			U	-1.56	pCi/L			MG7	06/26/2523:32
	Uncert:			+/-20.9					
	TPU:			+/-20.9					
QC1206138585 728276002 DUP									
Carbon-14	U	-12.5	U	-7.99	pCi/L				06/26/2523:48
	Uncert:	+/-20.4		+/-20.6		RPD: 0	N/A		
	TPU:	+/-20.4		+/-20.6		RER: 0.303	(0-2)		
QC1206138586 728276002 MS									
Carbon-14	2910 U	-12.5		2860	pCi/L	REC: 98.2	(75%-125%)		06/27/2500:04

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QC Summary

Workorder: 728582

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date Time
Rad Liquid Scintillation									
Batch 2812603									
	Uncert:	+/-20.4		+/-169					
	TPU:	+/-20.4		+/-557					
QC1206138587 LCS									
Carbon-14	739			790	pCi/L	REC: 107	(80%-120%)		06/27/2500:20
	Uncert:			+/-45.0					
	TPU:			+/-153					
Batch 2814170									
QC1206141890 MB									
Technetium-99			U	4.87	pCi/L			GS3	07/01/2521:10
	Uncert:			+/-14.2					
	TPU:			+/-14.3					
**Technetium-99m Tracer	5.85E+05			5.68E+05	CPM	REC: 97	(30%-105%)		
QC1206141891 728276003 DUP									
Technetium-99	U	5.50	U	-0.274	pCi/L				07/01/2522:13
	Uncert:	+/-13.9		+/-14.1		RPD: 0	N/A		
	TPU:	+/-14.0		+/-14.1		RER: 0.571	(0-2)		
**Technetium-99m Tracer	5.85E+05	5.78E+05		5.72E+05	CPM	REC: 98	(30%-105%)		
QC1206141892 LCS									
Technetium-99	605			538	pCi/L	REC: 88.9	(80%-120%)		07/01/2523:16
	Uncert:			+/-21.8					
	TPU:			+/-64.4					
**Technetium-99m Tracer	5.85E+05			5.85E+05	CPM	REC: 100	(30%-105%)		
Batch 2814175									
QC1206141899 MB									
Selenium-79			U	-9.83	pCi/L			KH2	06/27/2509:19
	Uncert:			+/-16.8					
	TPU:			+/-16.8					
**Selenium Carrier	20.0			16.2	mg	REC: 81	(40%-110%)		
QC1206141900 728276003 DUP									
Selenium-79	U	-10.0	U	-4.54	pCi/L				06/27/2509:46
	Uncert:	+/-16.6		+/-18.6		RPD: 0	N/A		
	TPU:	+/-16.6		+/-18.6		RER: 0.432	(0-2)		
**Selenium Carrier	20.0	16.6		14.9	mg	REC: 75	(40%-110%)		
QC1206141901 LCS									
Selenium-79	1010			909	pCi/L	REC: 89.8	(75%-125%)		06/27/2510:12
	Uncert:			+/-37.3					
	TPU:			+/-115					
**Selenium Carrier	20.0			14.2	mg	REC: 71	(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

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QC Summary

Workorder: **728582**

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date	Time

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.