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 S25-003
Work Order: 713032
SDG: GEL713032

Dear Ms. Medley:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 08, 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: S25-003-075, S25-003-078 and S25-003-079
Enclosures

problem solved

Table of Contents

Case Narrative.....1

Chain of Custody and Supporting Documentation.6

Data Review Qualifier Definitions.....11

Laboratory Certifications.....14

Volatile Analysis.....16

Case Narrative.....17

Sample Data Summary.....20

Quality Control Summary.....25

Metals Analysis.....46

Case Narrative.....47

Sample Data Summary.....51

Quality Control Summary.....54

General Chem Analysis.....59

Case Narrative.....60

Sample Data Summary.....66

Quality Control Summary.....69

Radiological Analysis.....73

Case Narrative.....74

Sample Data Summary.....78

Quality Control Data.....81

Case Narrative

General Narrative
for
Central Plateau Cleanup Company (89223)
SAF S25-003
SDG: GEL713032

April 04, 2025

Laboratory Identification:

The GEL Group, Inc.

Summary

Sample receipt

The sample(s) arrived at GEL Laboratories, LLC, Charleston, South Carolina on March 08, 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
713032001	B4L079
713032002	B4L081
713032003	B4L0N1
713032004	B4L0N6

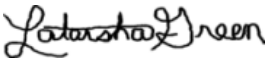
Case Narrative

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: GC/MS Volatile, General Chemistry, Radiochemistry and Metals.

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

Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL713032
Work Order #: 713032

GC/MS Volatile

Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer

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.

Calibration Information

Continuing Calibration Verification Requirements
All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8260D for samples and the associated QC. However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8260D outlier acceptance criteria. The results are reported.

Metals

Determination of Metals by ICP

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.

Determination of Metals by ICP-MS

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.

General Chemistry

Carbon, Total Organic

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.

Solids, Total Dissolved

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.

Solids, Total Dissolved

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.

Sulfide, Total

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.

Alkalinity

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.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 713032001 (B4L079) and 713032003 (B4L0N1).

Radiochemistry

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_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.

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

Central Plateau Cleanup Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 713032	C.O.C. # S25-003-075 PAGE 1 OF 1

Collector:	Dave Stephenson/CPCCo	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	S25-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	SURV, March 2025	**Logbook No.:**	HNF-N-506 -147-41	**Ice Chest No.:**	4 w s-900
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7725 5884 3388
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
B4L079	N	W	MAR 0 6 2025	1132	1x250-mL G/P	2320B_ALKALINITY: GW 01	14 Days	Cool <=6C
B4L079	N	W	↓	↓	1x250-mL G/P	2540C_TDS: COMMON	7 Days	Cool <=6C
B4L079	N	W			1x1-L G/P	4500D_SULFIDE: COMMON	7 Days	ZnAc+NaOH to pH > 9 / Cool <=6C
B4L079	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C
B4L079	N	W			1x500-mL G/P	SMR_GW6010_CORROSION 2/7; SMR_GW6020_CORROSION 5/7	6 Months	HNO3 to pH <2
B4L081	Y	W	↓	↓	1x500-mL G/P	SMR_GW6010_CORROSION 2/7; SMR_GW6020_CORROSION 5/7	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 0 6 2025 1325	Jim Lochridge/CPCC		MAR 0 6 2025 1325
Jim Lochridge/CPCC		MAR 0 6 2025 1335	SSU-1		MAR 0 6 2025 1335
SSU-1		MAR 0 7 2025 0700	Mike Esparza / CPCC		MAR 0 7 2025 0700
Mike Esparza / CPCC		MAR 0 7 2025 1400	FEDEX		
FEDEX			Michelle Stemen		3.8.25 1000

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:

GEL713032 April 4, 2025 Rev. 0

Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 713032

C.O.C. # **S25-003-078**

PAGE 1 OF 1

Collector:	Dave Stephenson/CPCCo	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	S25-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	SURV, March 2025	**Logbook No.:**	HNF-N-506 -147-41	**Ice Chest No.:**	GWS-900
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	7725 5884 3388
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
B4L0N1	N	W	MAR 0 6 2025	1222	1x250-mL G/P	2320B_ALKALINITY: GW 01	14 Days	Cool <=6C
B4L0N1	N	W			1x250-mL G/P	2540C_TDS: COMMON	7 Days	Cool <=6C
B4L0N1	N	W			1x1-L G/P	4500D_SULFIDE: COMMON	7 Days	ZnAc+NaOH to pH > 9 / Cool <=6C
B4L0N1	N	W			4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON REV 1	14 Days	HCl or H2SO4 to pH <2 / Cool <=6C
B4L0N1	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2 / Cool <=6C
B4L0N1	N	W			1x4-L G/P	SMR_I129LOWLEVEL_RAD	6 Months	None
B4L0N1	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 0 6 2025 1325	Jim Lochridge/CPCC		MAR 0 6 2025 1325
Jim Lochridge/CPCC		MAR 0 6 2025 1335	SSU-1		MAR 0 6 2025 1335
SSU-1		MAR 0 7 2025 0100	Mike Esparza / CPCC		MAR 0 7 2025 0100
Mike Esparza / CPCC		MAR 0 7 2025 1400	FEDEX		3.8.25 1000
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 12/31/2024 FSR ID = FSR153870 Report Format: 02/29/2024

GEL713032
April 4, 2025
Rev. 0

Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 713032

C.O.C. # **S25-003-079**

PAGE 1 OF 1

Collector:	Dave Stephenson/CPCCo	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	S25-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	SURV, March 2025	**Logbook No.:**	HNF-N-506 – 147-41	**Ice Chest No.:**	GWS-900
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	772558843388
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
B4L0N6	N	W	MAR 0 6 2025	1309	4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON REV 1	14 Days	HCl or H2SO4 to pH <2 / Cool <=6C

Relinquished By			Received By		
Print First and Last Name	*Signature*	*Date/Time*	*Print First and Last Name*	*Signature*	*Date/Time*
Dave Stephenson/CPCCo		MAR 0 6 2025 1325	Jim Lochridge/CPCC		MAR 0 6 2025 1325
Jim Lochridge/CPCC SSU-1		MAR 0 6 2025 1335	SSU-1		MAR 0 6 2025 1335
Mike Esparza / CPCC		MAR 0 7 2025 0700	Mike Esparza / CPCC		MAR 0 7 2025 0700
FEDEX		MAR 0 7 2025 1400	FEDEX		3.8.25 1000

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 12/31/2024 **FSR ID =** FSR153908 Report Format: 02/29/2024

GEL713032 SAG GEL713032
GEL713032
April 4, 2025
Rev. 0

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CPRC | SDG/AR/COC/Work Order: 713032 | GEL PM: HS

Received By: MLS | Date Received at GEL: 3.8.25

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

IR Temp gun # 1-23 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).
7725 5952 5906	1				
7725 5884 3388	2				

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): Ø 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	[illegible] 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:

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 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

Volatile Analysis

Case Narrative

GC/MS Volatile
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL713032
Work Order #: 713032

Product: **Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer**
Analytical Method: SW846 8260D
Analytical Procedure: GL-OA-E-038 REV# 30
Analytical Batch: 2768985

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

GEL Sample ID#	Client Sample Identification
713032003	B4L0N1
713032004	B4L0N6
1206044162	Laboratory Control Sample (LCS)
1206044163	Method Blank (MB)
1206044164	713032003(B4L0N1) Post Spike (PS)
1206044165	713032003(B4L0N1) Post Spike Duplicate (PSD)
1206044174	Laboratory Control Sample (LCS)
1206044175	713032003(B4L0N1) Post Spike (PS)
1206044176	713032003(B4L0N1) Post Spike Duplicate (PSD)

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.

Calibration Information

Continuing Calibration Verification Requirements
All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8260D for samples and the associated QC. However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8260D outlier acceptance criteria. The 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: GEL713032 GEL Work Order: 713032

The Qualifiers in this report are defined as follows:

J The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).Value is estimated

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

DL Indicates that sample is diluted.

RA Indicates that sample is re-analyzed without re-extraction.

RE Indicates that sample is re-extracted.

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: Erin Haubert **Name: Erin Haubert**

Date: 03 APR 2025 **Title: Data Validator**

Sample Data Summary

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**GEL713032**	**Date Collected:**	**03/06/2025 12:22**	**Matrix:**	**WATER**
Lab Sample ID:	**713032003**	**Date Received:**	**03/08/2025 10:00**		
		Client:	**CPRC003**	**Project:**	**CPRC0S25003**
Client ID:	**B4L0N1**	**Method:**	**SW846 8260D**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**2768985**	**Inst:**	**VOAA.I**	**Dilution:**	**1**
Run Date:	**03/20/2025 18:19**	**Analyst:**	**JEB**	**Purge Vol:**	**5 mL**
Prep Date:	**03/20/2025 18:19**				
Data File:	**032025VA\AY423.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-71-8	Dichlorodifluoromethane	U	0.355	ug/L	0.355	1.00	10.0
74-87-3	Chloromethane	U	0.333	ug/L	0.333	1.00	10.0
75-01-4	Vinyl chloride	U	0.333	ug/L	0.333	1.00	10.0
74-83-9	Bromomethane	U	0.337	ug/L	0.337	1.00	10.0
75-00-3	Chloroethane	U	0.333	ug/L	0.333	1.00	10.0
75-69-4	Trichlorofluoromethane	U	0.333	ug/L	0.333	1.00	10.0
67-64-1	Acetone	U	1.74	ug/L	1.74	5.00	20.0
75-35-4	1,1-Dichloroethylene	U	0.333	ug/L	0.333	1.00	10.0
74-88-4	Iodomethane	U	1.67	ug/L	1.67	5.00	10.0
75-05-8	Acetonitrile	U	8.33	ug/L	8.33	25.0	100
75-15-0	Carbon disulfide	U	1.67	ug/L	1.67	5.00	5.00
75-09-2	Methylene chloride	U	0.500	ug/L	0.500	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene	U	0.333	ug/L	0.333	1.00	5.00
108-05-4	Vinyl acetate	U	1.67	ug/L	1.67	5.00	50.0
75-34-3	1,1-Dichloroethane	U	0.333	ug/L	0.333	1.00	10.0
78-93-3	2-Butanone	U	1.67	ug/L	1.67	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene	U	0.333	ug/L	0.333	1.00	5.00
67-66-3	Chloroform	J	0.370	ug/L	0.333	1.00	5.00
71-55-6	1,1,1-Trichloroethane	U	0.333	ug/L	0.333	1.00	5.00
56-23-5	Carbon tetrachloride		4.45	ug/L	0.333	1.00	3.00
107-06-2	1,2-Dichloroethane	U	0.333	ug/L	0.333	1.00	5.00
71-43-2	Benzene	U	0.333	ug/L	0.333	1.00	5.00
79-01-6	Trichloroethylene	U	0.333	ug/L	0.333	1.00	5.00
78-87-5	1,2-Dichloropropane	U	0.333	ug/L	0.333	1.00	5.00
74-95-3	Dibromomethane	U	0.333	ug/L	0.333	1.00	10.0
75-27-4	Bromodichloromethane	U	0.333	ug/L	0.333	1.00	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	0.333	ug/L	0.333	1.00	5.00
108-10-1	4-Methyl-2-pentanone	U	1.67	ug/L	1.67	5.00	10.0
108-88-3	Toluene	U	0.333	ug/L	0.333	1.00	5.00
10061-02-6	trans-1,3-Dichloropropylene	U	0.333	ug/L	0.333	1.00	5.00
79-00-5	1,1,2-Trichloroethane	U	0.333	ug/L	0.333	1.00	5.00
591-78-6	2-Hexanone	U	1.67	ug/L	1.67	5.00	20.0
127-18-4	Tetrachloroethylene	U	0.333	ug/L	0.333	1.00	5.00
124-48-1	Dibromochloromethane	U	0.333	ug/L	0.333	1.00	5.00
106-93-4	1,2-Dibromoethane	U	0.333	ug/L	0.333	1.00	5.00
108-90-7	Chlorobenzene	U	0.333	ug/L	0.333	1.00	5.00
100-41-4	Ethylbenzene	U	0.333	ug/L	0.333	1.00	4.00
100-42-5	Styrene	U	0.333	ug/L	0.333	1.00	5.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**GEL713032**	**Date Collected:**	**03/06/2025 12:22**	**Matrix:**	**WATER**
Lab Sample ID:	**713032003**	**Date Received:**	**03/08/2025 10:00**		
		Client:	**CPRC003**	**Project:**	**CPRC0S25003**
Client ID:	**B4L0N1**	**Method:**	**SW846 8260D**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**2768985**	**Inst:**	**VOAA.I**	**Dilution:**	**1**
Run Date:	**03/20/2025 18:19**	**Analyst:**	**JEB**	**Purge Vol:**	**5 mL**
Prep Date:	**03/20/2025 18:19**				
Data File:	**032025VA\AY423.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-25-2	Bromoform	U	0.333	ug/L	0.333	1.00	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	0.333	ug/L	0.333	1.00	5.00
96-18-4	1,2,3-Trichloropropane	U	0.333	ug/L	0.333	1.00	5.00
106-46-7	1,4-Dichlorobenzene	U	0.333	ug/L	0.333	1.00	4.00
96-12-8	1,2-Dibromo-3-chloropropane	U	0.333	ug/L	0.333	1.00	5.00
107-02-8	Acrolein	U	1.67	ug/L	1.67	5.00	100
107-05-1	Allyl chloride	U	1.67	ug/L	1.67	5.00	10.0
107-13-1	Acrylonitrile	U	1.67	ug/L	1.67	5.00	100
126-99-8	2-Chloro-1,3-butadiene	U	0.333	ug/L	0.333	1.00	10.0
107-12-0	Propionitrile	U	1.67	ug/L	1.67	5.00	10.0
126-98-7	Methacrylonitrile	U	1.67	ug/L	1.67	5.00	10.0
78-83-1	Isobutyl alcohol	U	16.7	ug/L	16.7	50.0	500
80-62-6	Methyl methacrylate	U	1.67	ug/L	1.67	5.00	10.0
97-63-2	Ethyl methacrylate	U	1.67	ug/L	1.67	5.00	10.0
110-57-6	trans-1,4-Dichloro-2-butene	U	1.67	ug/L	1.67	5.00	50.0
1330-20-7	Xylenes (total)	U	1.00	ug/L	1.00	3.00	10.0
630-20-6	1,1,1,2-Tetrachloroethane	U	0.333	ug/L	0.333	1.00	1.7

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**GEL713032**	**Date Collected:**	**03/06/2025 13:09**	**Matrix:**	**WATER**
Lab Sample ID:	**713032004**	**Date Received:**	**03/08/2025 10:00**		
		Client:	**CPRC003**	**Project:**	**CPRC0S25003**
Client ID:	**B4L0N6**	**Method:**	**SW846 8260D**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**2768985**	**Inst:**	**VOAA.I**	**Dilution:**	**1**
Run Date:	**03/20/2025 18:44**	**Analyst:**	**JEB**	**Purge Vol:**	**5 mL**
Prep Date:	**03/20/2025 18:44**				
Data File:	**032025VA\AY424.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-71-8	Dichlorodifluoromethane	U	0.355	ug/L	0.355	1.00	10.0
74-87-3	Chloromethane	U	0.333	ug/L	0.333	1.00	10.0
75-01-4	Vinyl chloride	U	0.333	ug/L	0.333	1.00	10.0
74-83-9	Bromomethane	U	0.337	ug/L	0.337	1.00	10.0
75-00-3	Chloroethane	U	0.333	ug/L	0.333	1.00	10.0
75-69-4	Trichlorofluoromethane	U	0.333	ug/L	0.333	1.00	10.0
67-64-1	Acetone	U	1.74	ug/L	1.74	5.00	20.0
75-35-4	1,1-Dichloroethylene	U	0.333	ug/L	0.333	1.00	10.0
74-88-4	Iodomethane	U	1.67	ug/L	1.67	5.00	10.0
75-05-8	Acetonitrile	U	8.33	ug/L	8.33	25.0	100
75-15-0	Carbon disulfide	U	1.67	ug/L	1.67	5.00	5.00
75-09-2	Methylene chloride	U	0.500	ug/L	0.500	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene	U	0.333	ug/L	0.333	1.00	5.00
108-05-4	Vinyl acetate	U	1.67	ug/L	1.67	5.00	50.0
75-34-3	1,1-Dichloroethane	U	0.333	ug/L	0.333	1.00	10.0
78-93-3	2-Butanone	U	1.67	ug/L	1.67	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene	U	0.333	ug/L	0.333	1.00	5.00
67-66-3	Chloroform	J	0.510	ug/L	0.333	1.00	5.00
71-55-6	1,1,1-Trichloroethane	U	0.333	ug/L	0.333	1.00	5.00
56-23-5	Carbon tetrachloride	J	0.580	ug/L	0.333	1.00	3.00
107-06-2	1,2-Dichloroethane	U	0.333	ug/L	0.333	1.00	5.00
71-43-2	Benzene	U	0.333	ug/L	0.333	1.00	5.00
79-01-6	Trichloroethylene	U	0.333	ug/L	0.333	1.00	5.00
78-87-5	1,2-Dichloropropane	U	0.333	ug/L	0.333	1.00	5.00
74-95-3	Dibromomethane	U	0.333	ug/L	0.333	1.00	10.0
75-27-4	Bromodichloromethane	J	0.510	ug/L	0.333	1.00	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	0.333	ug/L	0.333	1.00	5.00
108-10-1	4-Methyl-2-pentanone	U	1.67	ug/L	1.67	5.00	10.0
108-88-3	Toluene	U	0.333	ug/L	0.333	1.00	5.00
10061-02-6	trans-1,3-Dichloropropylene	U	0.333	ug/L	0.333	1.00	5.00
79-00-5	1,1,2-Trichloroethane	U	0.333	ug/L	0.333	1.00	5.00
591-78-6	2-Hexanone	U	1.67	ug/L	1.67	5.00	20.0
127-18-4	Tetrachloroethylene	U	0.333	ug/L	0.333	1.00	5.00
124-48-1	Dibromochloromethane	U	0.333	ug/L	0.333	1.00	5.00
106-93-4	1,2-Dibromoethane	U	0.333	ug/L	0.333	1.00	5.00
108-90-7	Chlorobenzene	U	0.333	ug/L	0.333	1.00	5.00
100-41-4	Ethylbenzene	U	0.333	ug/L	0.333	1.00	4.00
100-42-5	Styrene	U	0.333	ug/L	0.333	1.00	5.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**GEL713032**	**Date Collected:**	**03/06/2025 13:09**	**Matrix:**	**WATER**
Lab Sample ID:	**713032004**	**Date Received:**	**03/08/2025 10:00**		
		Client:	**CPRC003**	**Project:**	**CPRC0S25003**
Client ID:	**B4L0N6**	**Method:**	**SW846 8260D**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**2768985**	**Inst:**	**VOAA.I**	**Dilution:**	**1**
Run Date:	**03/20/2025 18:44**	**Analyst:**	**JEB**	**Purge Vol:**	**5 mL**
Prep Date:	**03/20/2025 18:44**				
Data File:	**032025VA\AY424.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-25-2	Bromoform	U	0.333	ug/L	0.333	1.00	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	0.333	ug/L	0.333	1.00	5.00
96-18-4	1,2,3-Trichloropropane	U	0.333	ug/L	0.333	1.00	5.00
106-46-7	1,4-Dichlorobenzene	U	0.333	ug/L	0.333	1.00	4.00
96-12-8	1,2-Dibromo-3-chloropropane	U	0.333	ug/L	0.333	1.00	5.00
107-02-8	Acrolein	U	1.67	ug/L	1.67	5.00	100
107-05-1	Allyl chloride	U	1.67	ug/L	1.67	5.00	10.0
107-13-1	Acrylonitrile	U	1.67	ug/L	1.67	5.00	100
126-99-8	2-Chloro-1,3-butadiene	U	0.333	ug/L	0.333	1.00	10.0
107-12-0	Propionitrile	U	1.67	ug/L	1.67	5.00	10.0
126-98-7	Methacrylonitrile	U	1.67	ug/L	1.67	5.00	10.0
78-83-1	Isobutyl alcohol	U	16.7	ug/L	16.7	50.0	500
80-62-6	Methyl methacrylate	U	1.67	ug/L	1.67	5.00	10.0
97-63-2	Ethyl methacrylate	U	1.67	ug/L	1.67	5.00	10.0
110-57-6	trans-1,4-Dichloro-2-butene	U	1.67	ug/L	1.67	5.00	50.0
1330-20-7	Xylenes (total)	U	1.00	ug/L	1.00	3.00	10.0
630-20-6	1,1,1,2-Tetrachloroethane	U	0.333	ug/L	0.333	1.00	1.7

Quality Control Summary

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

QC Summary

Report Date: April 2, 2025

Central Plateau Cleanup Company
200 East / MO-277 / 108
PO Box 1600
Richland, Washington

Contact: **Ms. Heather Medley**

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2768985											
QC1206044162 LCS											
1,1,1,2-Tetrachloroethane	50.0			45.1	ug/L		90	(73%-122%)	JEB	03/20/25	09:55
1,1,1-Trichloroethane	50.0			47.4	ug/L		95	(70%-130%)			
1,1,2,2-Tetrachloroethane	50.0			50.6	ug/L		101	(66%-123%)			
1,1,2-Trichloroethane	50.0			47.3	ug/L		95	(70%-120%)			
1,1-Dichloroethane	50.0			50.4	ug/L		101	(75%-126%)			
1,1-Dichloroethylene	50.0			55.2	ug/L		110	(72%-136%)			
1,2,3-Trichloropropane	50.0			51.4	ug/L		103	(69%-120%)			
1,2-Dibromo-3-chloropropane	50.0			34.4	ug/L		69	(58%-130%)			
1,2-Dibromoethane	50.0			48.6	ug/L		97	(71%-120%)			
1,2-Dichloroethane	50.0			52.4	ug/L		105	(64%-129%)			
1,2-Dichloropropane	50.0			48.4	ug/L		97	(72%-121%)			
1,4-Dichlorobenzene	50.0			49.0	ug/L		98	(72%-120%)			

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2768985										
2-Butanone	250			250	ug/L		100	(63%-134%)	JEB	03/20/25 09:55
2-Hexanone	250			254	ug/L		102	(58%-143%)		
4-Methyl-2-pentanone	250			249	ug/L		100	(65%-125%)		
Acetone	250			244	ug/L		98	(56%-149%)		
Acetonitrile	1250			1200	ug/L		96	(56%-135%)		
Benzene	50.0			45.2	ug/L		90	(74%-128%)		
Bromodichloromethane	50.0			46.9	ug/L		94	(72%-126%)		
Bromoform	50.0			37.5	ug/L		75	(70%-130%)		
Bromomethane	50.0			48.1	ug/L		96	(64%-142%)		
Carbon disulfide	250			266	ug/L		106	(63%-133%)		
Carbon tetrachloride	50.0			47.9	ug/L		96	(70%-135%)		
Chlorobenzene	50.0			46.6	ug/L		93	(74%-120%)		
Chloroethane	50.0			48.2	ug/L		96	(66%-140%)		
Chloroform	50.0			47.3	ug/L		95	(74%-122%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2768985										
Chloromethane	50.0			54.8	ug/L		110	(56%-142%)	JEB	03/20/25 09:55
Dibromochloromethane	50.0			45.4	ug/L		91	(70%-130%)		
Dibromomethane	50.0			49.0	ug/L		98	(72%-120%)		
Dichlorodifluoromethane	50.0			50.0	ug/L		100	(58%-151%)		
Ethylbenzene	50.0			47.0	ug/L		94	(71%-121%)		
Iodomethane	250			265	ug/L		106	(69%-128%)		
Methylene chloride	50.0			49.6	ug/L		99	(65%-121%)		
Styrene	50.0			45.7	ug/L		91	(70%-125%)		
Tetrachloroethylene	50.0			44.4	ug/L		89	(70%-130%)		
Toluene	50.0			46.0	ug/L		92	(73%-121%)		
Trichloroethylene	50.0			46.6	ug/L		93	(76%-126%)		
Trichlorofluoromethane	50.0			51.1	ug/L		102	(63%-136%)		
Vinyl acetate	250			207	ug/L		83	(65%-133%)		
Vinyl chloride	50.0			56.4	ug/L		113	(63%-144%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2768985										
Xylenes (total)	150			139	ug/L		93	(74%-124%)	JEB	03/20/25 09:55
cis-1,2-Dichloroethylene	50.0			49.7	ug/L		99	(73%-122%)		
cis-1,3-Dichloropropylene	50.0			47.7	ug/L		95	(73%-125%)		
trans-1,2-Dichloroethylene	50.0			49.9	ug/L		100	(73%-129%)		
trans-1,3-Dichloropropylene	50.0			50.0	ug/L		100	(70%-126%)		
**1,2-Dichloroethane-d4	50.0			55.1	ug/L		110	(76%-127%)		
**Bromofluorobenzene	50.0			55.0	ug/L		110	(74%-123%)		
**Toluene-d8	50.0			51.4	ug/L		103	(77%-121%)		
QC1206044174 LCS										
2-Chloro-1,3-butadiene	50.0			45.4	ug/L		91	(64%-131%)		03/20/25 10:43
Acrolein	250			277	ug/L		111	(60%-140%)		
Acrylonitrile	250			249	ug/L		100	(68%-127%)		
Allyl chloride	250			264	ug/L		106	(66%-128%)		
Ethyl methacrylate	250			261	ug/L		105	(66%-125%)		
Isobutyl alcohol	2500			2540	ug/L		102	(65%-137%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2768985										
Methacrylonitrile	250			239	ug/L		96	(65%-126%)	JEB	03/20/25 10:43
Methyl methacrylate	250			247	ug/L		99	(68%-122%)		
Propionitrile	250			245	ug/L		98	(64%-127%)		
trans-1,4-Dichloro-2-butene	250			318	ug/L		127	(63%-141%)		
**1,2-Dichloroethane-d4	50.0			53.1	ug/L		106	(76%-127%)		
**Bromofluorobenzene	50.0			54.2	ug/L		108	(74%-123%)		
**Toluene-d8	50.0			51.7	ug/L		103	(77%-121%)		
QC1206044163 MB										
1,1,1,2-Tetrachloroethane			U	0.333	ug/L					03/20/25 11:07
1,1,1-Trichloroethane			U	0.333	ug/L					
1,1,2,2-Tetrachloroethane			U	0.333	ug/L					
1,1,2-Trichloroethane			U	0.333	ug/L					
1,1-Dichloroethane			U	0.333	ug/L					
1,1-Dichloroethylene			U	0.333	ug/L					
1,2,3-Trichloropropane			U	0.333	ug/L					

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2768985											
1,2-Dibromo-3-chloropropane			U	0.333	ug/L				JEB	03/20/25	11:07
1,2-Dibromoethane			U	0.333	ug/L						
1,2-Dichloroethane			U	0.333	ug/L						
1,2-Dichloropropane			U	0.333	ug/L						
1,4-Dichlorobenzene			U	0.333	ug/L						
2-Butanone			U	1.67	ug/L						
2-Chloro-1,3-butadiene			U	0.333	ug/L						
2-Hexanone			U	1.67	ug/L						
4-Methyl-2-pentanone			U	1.67	ug/L						
Acetone			U	1.74	ug/L						
Acetonitrile			U	8.33	ug/L						
Acrolein			U	1.67	ug/L						
Acrylonitrile			U	1.67	ug/L						
Allyl chloride			U	1.67	ug/L						

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2768985										
Benzene			U	0.333	ug/L				JEB	03/20/25 11:07
Bromodichloromethane			U	0.333	ug/L					
Bromoform			U	0.333	ug/L					
Bromomethane			U	0.337	ug/L					
Carbon disulfide			U	1.67	ug/L					
Carbon tetrachloride			U	0.333	ug/L					
Chlorobenzene			U	0.333	ug/L					
Chloroethane			U	0.333	ug/L					
Chloroform			U	0.333	ug/L					
Chloromethane			U	0.333	ug/L					
Dibromochloromethane			U	0.333	ug/L					
Dibromomethane			U	0.333	ug/L					
Dichlorodifluoromethane			U	0.355	ug/L					
Ethyl methacrylate			U	1.67	ug/L					

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2768985											
Ethylbenzene			U	0.333	ug/L				JEB	03/20/25	11:07
Iodomethane			U	1.67	ug/L						
Isobutyl alcohol			U	16.7	ug/L						
Methacrylonitrile			U	1.67	ug/L						
Methyl methacrylate			U	1.67	ug/L						
Methylene chloride			U	0.500	ug/L						
Propionitrile			U	1.67	ug/L						
Styrene			U	0.333	ug/L						
Tetrachloroethylene			U	0.333	ug/L						
Toluene			U	0.333	ug/L						
Trichloroethylene			U	0.333	ug/L						
Trichlorofluoromethane			U	0.333	ug/L						
Vinyl acetate			U	1.67	ug/L						
Vinyl chloride			U	0.333	ug/L						

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2768985											
Xylenes (total)				U	1.00	ug/L				JEB	03/20/25 11:07
cis-1,2-Dichloroethylene				U	0.333	ug/L					
cis-1,3-Dichloropropylene				U	0.333	ug/L					
trans-1,2-Dichloroethylene				U	0.333	ug/L					
trans-1,3-Dichloropropylene				U	0.333	ug/L					
trans-1,4-Dichloro-2-butene				U	1.67	ug/L					
**1,2-Dichloroethane-d4	50.0				51.5	ug/L		103	(76%-127%)		
**Bromofluorobenzene	50.0				49.7	ug/L		99	(74%-123%)		
**Toluene-d8	50.0				52.7	ug/L		105	(77%-121%)		
QC1206044164 713032003 PS											
1,1,1,2-Tetrachloroethane	50.0	U	0.000		50.6	ug/L		101	(67%-130%)		03/20/25 19:31
1,1,1-Trichloroethane	50.0	U	0.000		53.7	ug/L		107	(56%-133%)		
1,1,2,2-Tetrachloroethane	50.0	U	0.000		52.4	ug/L		105	(59%-136%)		
1,1,2-Trichloroethane	50.0	U	0.000		49.5	ug/L		99	(68%-123%)		
1,1-Dichloroethane	50.0	U	0.000		59.3	ug/L		119	(67%-128%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2768985												
1,1-Dichloroethylene	50.0	U	0.000		62.8	ug/L		126	(57%-137%)	JEB	03/20/25	19:31
1,2,3-Trichloropropane	50.0	U	0.000		51.2	ug/L		102	(67%-126%)			
1,2-Dibromo-3-chloropropane	50.0	U	0.000		31.5	ug/L		63	(49%-137%)			
1,2-Dibromoethane	50.0	U	0.000		48.7	ug/L		97	(65%-124%)			
1,2-Dichloroethane	50.0	U	0.000		55.9	ug/L		112	(60%-134%)			
1,2-Dichloropropane	50.0	U	0.000		53.8	ug/L		108	(67%-125%)			
1,4-Dichlorobenzene	50.0	U	0.000		51.4	ug/L		103	(54%-123%)			
2-Butanone	250	U	0.000		240	ug/L		96	(47%-134%)			
2-Hexanone	250	U	0.000		261	ug/L		104	(55%-140%)			
4-Methyl-2-pentanone	250	U	0.000		250	ug/L		100	(60%-132%)			
Acetone	250	U	0.000		234	ug/L		93	(50%-139%)			
Acetonitrile	1250	U	0.000		1140	ug/L		91	(49%-140%)			
Benzene	50.0	U	0.000		50.5	ug/L		101	(67%-128%)			
Bromodichloromethane	50.0	U	0.000		50.6	ug/L		101	(64%-130%)			

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2768985											
Bromoform	50.0	U	0.000		36.1	ug/L		72	(58%-134%)	JEB	03/20/25 19:31
Bromomethane	50.0	U	0.000		55.1	ug/L		110	(55%-149%)		
Carbon disulfide	250	U	0.000		300	ug/L		120	(55%-131%)		
Carbon tetrachloride	50.0		4.45		60.4	ug/L		112	(58%-141%)		
Chlorobenzene	50.0	U	0.000		51.2	ug/L		102	(63%-121%)		
Chloroethane	50.0	U	0.000		54.3	ug/L		109	(56%-143%)		
Chloroform	50.0	J	0.370		53.8	ug/L		107	(65%-128%)		
Chloromethane	50.0	U	0.000		68.2	ug/L		136	(42%-152%)		
Dibromochloromethane	50.0	U	0.000		47.1	ug/L		94	(63%-137%)		
Dibromomethane	50.0	U	0.000		50.6	ug/L		101	(67%-126%)		
Dichlorodifluoromethane	50.0	U	0.000		52.7	ug/L		105	(37%-162%)		
Ethylbenzene	50.0	U	0.000		52.5	ug/L		105	(58%-123%)		
Iodomethane	250	U	0.000		287	ug/L		115	(61%-130%)		
Methylene chloride	50.0	U	0.000		53.1	ug/L		106	(58%-123%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2768985											
Styrene	50.0	U	0.000		49.1	ug/L		98	(58%-129%)	JEB	03/20/25 19:31
Tetrachloroethylene	50.0	U	0.000		48.7	ug/L		97	(56%-126%)		
Toluene	50.0	U	0.000		52.6	ug/L		105	(63%-121%)		
Trichloroethylene	50.0	U	0.000		51.8	ug/L		104	(61%-130%)		
Trichlorofluoromethane	50.0	U	0.000		57.9	ug/L		116	(48%-137%)		
Vinyl acetate	250	U	0.000		245	ug/L		98	(55%-137%)		
Vinyl chloride	50.0	U	0.000		66.5	ug/L		133	(49%-153%)		
Xylenes (total)	150	U	0.000		154	ug/L		103	(55%-129%)		
cis-1,2-Dichloroethylene	50.0	U	0.000		56.7	ug/L		113	(65%-128%)		
cis-1,3-Dichloropropylene	50.0	U	0.000		48.7	ug/L		97	(63%-129%)		
trans-1,2-Dichloroethylene	50.0	U	0.000		57.7	ug/L		115	(63%-129%)		
trans-1,3-Dichloropropylene	50.0	U	0.000		50.5	ug/L		101	(65%-130%)		
**1,2-Dichloroethane-d4	50.0		55.2		54.2	ug/L		108	(76%-127%)		
**Bromofluorobenzene	50.0		53.4		55.1	ug/L		110	(74%-123%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2768985											
**Toluene-d8	50.0		53.4		52.1	ug/L		104	(77%-121%)	JEB	03/20/25 19:31
QC1206044175 713032003 PS											
2-Chloro-1,3-butadiene	50.0	U	0.000		44.2	ug/L		88	(56%-137%)		03/20/25 20:19
Acrolein	250	U	0.000		256	ug/L		102	(37%-143%)		
Acrylonitrile	250	U	0.000		238	ug/L		95	(62%-133%)		
Allyl chloride	250	U	0.000		262	ug/L		105	(58%-136%)		
Ethyl methacrylate	250	U	0.000		262	ug/L		105	(56%-133%)		
Isobutyl alcohol	2500	U	0.000		2480	ug/L		99	(58%-144%)		
Methacrylonitrile	250	U	0.000		241	ug/L		97	(61%-135%)		
Methyl methacrylate	250	U	0.000		246	ug/L		98	(61%-136%)		
Propionitrile	250	U	0.000		238	ug/L		95	(61%-134%)		
trans-1,4-Dichloro-2-butene	250	U	0.000		302	ug/L		121	(59%-149%)		
**1,2-Dichloroethane-d4	50.0		55.2		52.9	ug/L		106	(76%-127%)		
**Bromofluorobenzene	50.0		53.4		54.2	ug/L		108	(74%-123%)		
**Toluene-d8	50.0		53.4		52.0	ug/L		104	(77%-121%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2768985												
QC1206044165 713032003 PSD												
1,1,1,2-Tetrachloroethane	50.0	U	0.000		52.0	ug/L	3	104	(0%-20%)	JEB	03/20/25	19:55
1,1,1-Trichloroethane	50.0	U	0.000		55.7	ug/L	4	111	(0%-20%)			
1,1,2,2-Tetrachloroethane	50.0	U	0.000		53.6	ug/L	2	107	(0%-20%)			
1,1,2-Trichloroethane	50.0	U	0.000		50.5	ug/L	2	101	(0%-20%)			
1,1-Dichloroethane	50.0	U	0.000		60.3	ug/L	2	121	(0%-20%)			
1,1-Dichloroethylene	50.0	U	0.000		64.2	ug/L	2	128	(0%-20%)			
1,2,3-Trichloropropane	50.0	U	0.000		52.6	ug/L	3	105	(0%-20%)			
1,2-Dibromo-3-chloropropane	50.0	U	0.000		32.7	ug/L	4	65	(0%-20%)			
1,2-Dibromoethane	50.0	U	0.000		49.8	ug/L	2	100	(0%-20%)			
1,2-Dichloroethane	50.0	U	0.000		56.4	ug/L	1	113	(0%-20%)			
1,2-Dichloropropane	50.0	U	0.000		55.7	ug/L	4	111	(0%-20%)			
1,4-Dichlorobenzene	50.0	U	0.000		53.8	ug/L	5	108	(0%-20%)			
2-Butanone	250	U	0.000		233	ug/L	3	93	(0%-20%)			
2-Hexanone	250	U	0.000		244	ug/L	7	98	(0%-20%)			

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2768985											
4-Methyl-2-pentanone	250	U	0.000		243	ug/L	3	97	(0%-20%)	JEB	03/20/25 19:55
Acetone	250	U	0.000		228	ug/L	2	91	(0%-20%)		
Acetonitrile	1250	U	0.000		1150	ug/L	1	92	(0%-20%)		
Benzene	50.0	U	0.000		51.8	ug/L	3	104	(0%-20%)		
Bromodichloromethane	50.0	U	0.000		52.9	ug/L	4	106	(0%-20%)		
Bromoform	50.0	U	0.000		38.1	ug/L	5	76	(0%-20%)		
Bromomethane	50.0	U	0.000		61.0	ug/L	10	122	(0%-20%)		
Carbon disulfide	250	U	0.000		313	ug/L	4	125	(0%-20%)		
Carbon tetrachloride	50.0		4.45		62.8	ug/L	4	117	(0%-20%)		
Chlorobenzene	50.0	U	0.000		53.5	ug/L	4	107	(0%-20%)		
Chloroethane	50.0	U	0.000		60.4	ug/L	11	121	(0%-20%)		
Chloroform	50.0	J	0.370		54.8	ug/L	2	109	(0%-20%)		
Chloromethane	50.0	U	0.000		70.3	ug/L	3	141	(0%-20%)		
Dibromochloromethane	50.0	U	0.000		48.9	ug/L	4	98	(0%-20%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2768985											
Dibromomethane	50.0	U	0.000		51.9	ug/L	3	104	(0%-20%)	JEB	03/20/25 19:55
Dichlorodifluoromethane	50.0	U	0.000		59.4	ug/L	12	119	(0%-20%)		
Ethylbenzene	50.0	U	0.000		55.0	ug/L	5	110	(0%-20%)		
Iodomethane	250	U	0.000		301	ug/L	5	120	(0%-20%)		
Methylene chloride	50.0	U	0.000		54.2	ug/L	2	108	(0%-20%)		
Styrene	50.0	U	0.000		51.0	ug/L	4	102	(0%-20%)		
Tetrachloroethylene	50.0	U	0.000		51.1	ug/L	5	102	(0%-20%)		
Toluene	50.0	U	0.000		54.2	ug/L	3	108	(0%-20%)		
Trichloroethylene	50.0	U	0.000		54.0	ug/L	4	108	(0%-20%)		
Trichlorofluoromethane	50.0	U	0.000		63.1	ug/L	9	126	(0%-20%)		
Vinyl acetate	250	U	0.000		243	ug/L	1	97	(0%-20%)		
Vinyl chloride	50.0	U	0.000		70.1	ug/L	5	140	(0%-20%)		
Xylenes (total)	150	U	0.000		161	ug/L	4	107	(0%-20%)		
cis-1,2-Dichloroethylene	50.0	U	0.000		57.7	ug/L	2	115	(0%-20%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2768985											
cis-1,3-Dichloropropylene	50.0	U	0.000		51.5	ug/L	6	103	(0%-20%)	JEB	03/20/25 19:55
trans-1,2-Dichloroethylene	50.0	U	0.000		59.0	ug/L	2	118	(0%-20%)		
trans-1,3-Dichloropropylene	50.0	U	0.000		52.2	ug/L	3	104	(0%-20%)		
**1,2-Dichloroethane-d4	50.0		55.2		53.3	ug/L		107	(76%-127%)		
**Bromofluorobenzene	50.0		53.4		55.5	ug/L		111	(74%-123%)		
**Toluene-d8	50.0		53.4		52.1	ug/L		104	(77%-121%)		
QC1206044176 713032003 PSD											
2-Chloro-1,3-butadiene	50.0	U	0.000		47.6	ug/L	7	95	(0%-20%)		03/20/25 20:43
Acrolein	250	U	0.000		275	ug/L	7	110	(0%-20%)		
Acrylonitrile	250	U	0.000		248	ug/L	4	99	(0%-20%)		
Allyl chloride	250	U	0.000		282	ug/L	7	113	(0%-20%)		
Ethyl methacrylate	250	U	0.000		268	ug/L	2	107	(0%-20%)		
Isobutyl alcohol	2500	U	0.000		2550	ug/L	3	102	(0%-20%)		
Methacrylonitrile	250	U	0.000		245	ug/L	2	98	(0%-20%)		
Methyl methacrylate	250	U	0.000		242	ug/L	2	97	(0%-20%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2768985											
Propionitrile	250	U	0.000		241	ug/L	1	96	(0%-20%)	JEB	03/20/25 20:43
trans-1,4-Dichloro-2-butene	250	U	0.000		308	ug/L	2	123	(0%-20%)		
**1,2-Dichloroethane-d4	50.0		55.2		53.9	ug/L		108	(76%-127%)		
**Bromofluorobenzene	50.0		53.4		56.3	ug/L		113	(74%-123%)		
**Toluene-d8	50.0		53.4		53.3	ug/L		107	(77%-121%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyzed for but not detected above the MDL, MDA, MDC or LOD.
- J The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).Value is estimated
- P Aroclor target analyte with greater than 25% difference between column analyses.
- C Analyte has been confirmed by GC/MS analysis
- B The analyte was detected in both the associated QC blank and in the sample.
- E Concentration exceeds the calibration range of the instrument
- A The TIC is a suspected aldol-condensation product
- 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.
- O Analyte failed to recover within LCS limits (0rganics only)
- T Spike and/or spike duplicate sample recovery is outside control limits.
- Y Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Laboratory holding time exceeded before the sample was analyzed.

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance 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.
* Indicates that a Quality Control parameter was not within specifications.
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.

Surrogate Recovery Report

SDG Number: GEL713032

Matrix Type: LIQUID

Sample ID	Client ID	DCED4 %REC	TOL %REC	BFB %REC
1206044162	LCS for batch 2768985	110	103	110
1206044174	LCS for batch 2768985	106	103	108
1206044163	MB for batch 2768985	103	105	99
713032003	B4L0N1	110	107	107
713032004	B4L0N6	111	106	103
1206044164	B4L0N1PS	108	104	110
1206044165	B4L0N1PSD	107	104	111
1206044175	B4L0N1PS	106	104	108
1206044176	B4L0N1PSD	108	107	113

Surrogate		Acceptance Limits
DCED4	= 1,2-Dichloroethane-d4	(76%-127%)
TOL	= Toluene-d8	(77%-121%)
BFB	= Bromofluorobenzene	(74%-123%)

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL713032
Work Order #: 713032

Product: **Determination of Metals by ICP**
Analytical Method: SW846 3005A/6010D
Analytical Procedure: GL-MA-E-013 REV# 33
Analytical Batch: 2762940

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2762941

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batches: 2762933 and 2762935

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

GEL Sample ID#	Client Sample Identification
713032001	B4L079
713032002	B4L081
1206031513	Method Blank (MB)**ICP**
1206031514	Laboratory Control Sample (LCS)
1206031517	713030001(NonSDGL) Serial Dilution (SD)
1206031515	713030001(NonSDGS) Matrix Spike (MS)
1206031516	713030001(NonSDGSD) Matrix Spike Duplicate (MSD)
1206031522	Method Blank (MB)**ICP-MS**
1206031523	Laboratory Control Sample (LCS)
1206031526	713030001(NonSDGL) Serial Dilution (SD)
1206031524	713030001(NonSDGS) Matrix Spike (MS)
1206031525	713030001(NonSDGSD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

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: GEL713032 GEL Work Order: 713032

The Qualifiers in this report are defined as follows:

* Duplicate analysis not within control limits

B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).

D Results are reported from a diluted aliquot of sample.

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: Edmund Frampton**

Date: 03 APR 2025 **Title: Group Leader**

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL713032 **CONTRACT:** CPRC0S25003 **METHOD TYPE:** SW846

SAMPLE ID: 713032001 **LEVEL:** Low **DATE COLLECTED:** 06-MAR-25

CLIENT ID: B4L079 **%SOLIDS:** 0 **DATE RECEIVED:** 08-MAR-25

MATRIX: WATER **BASIS:** As Received

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	14.2	ug/L		3.00	10.0	10.0	1	MS	RM4	04/02/25 21:16	250402-2	2762941
7440-50-8	Copper	0.300	ug/L	U	0.300	2.00	2.00	1	MS	RM4	04/02/25 21:16	250402-2	2762941
7439-89-6	Iron	30.0	ug/L	U	30.0	100	100	1	P	JWJ	03/28/25 20:28	032825-1	2762940
7439-96-5	Manganese	1.00	ug/L	U	1.00	5.00	5.00	1	MS	RM4	04/02/25 21:16	250402-2	2762941
7439-98-7	Molybdenum	4.64	ug/L		0.200	1.00	1.00	1	MS	RM4	04/02/25 21:16	250402-2	2762941
7440-02-0	Nickel	0.823	ug/L	B	0.600	2.00	2.00	1	MS	RM4	04/02/25 21:16	250402-2	2762941
7440-66-6	Zinc	10.6	ug/L	B	3.30	20.0	20.0	1	P	JWJ	03/28/25 20:28	032825-1	2762940

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2762940	2762935	SW846 3005A	50	mL	50	mL	03/18/25	PB1
2762941	2762933	SW846 3005A	50	mL	50	mL	03/18/25	PB1

***Analytical Methods:**

P **SW846 3005A/6010D**
MS **SW846 3005A/6020B**

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL713032 **CONTRACT:** CPRC0S25003 **METHOD TYPE:** SW846

SAMPLE ID: 713032002 **LEVEL:** Low **DATE COLLECTED:** 06-MAR-25

CLIENT ID: B4L081 **%SOLIDS:** 0 **DATE RECEIVED:** 08-MAR-25

MATRIX: WATER **Dissolved Metals** **BASIS:** Filtered

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	14.5	ug/L		3.00	10.0	10.0	1	MS	RM4	04/02/25 21:27	250402-2	2762941
7440-50-8	Copper	0.300	ug/L	U	0.300	2.00	2.00	1	MS	RM4	04/02/25 21:27	250402-2	2762941
7439-89-6	Iron	30.0	ug/L	U	30.0	100	100	1	P	JWJ	03/28/25 20:31	032825-1	2762940
7439-96-5	Manganese	1.00	ug/L	U	1.00	5.00	5.00	1	MS	RM4	04/02/25 21:27	250402-2	2762941
7439-98-7	Molybdenum	4.74	ug/L		0.200	1.00	1.00	1	MS	RM4	04/02/25 21:27	250402-2	2762941
7440-02-0	Nickel	0.637	ug/L	B	0.600	2.00	2.00	1	MS	RM4	04/02/25 21:27	250402-2	2762941
7440-66-6	Zinc	10.6	ug/L	B	3.30	20.0	20.0	1	P	JWJ	03/28/25 20:31	032825-1	2762940

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2762940	2762935	SW846 3005A	50	mL	50	mL	03/18/25	PB1
2762941	2762933	SW846 3005A	50	mL	50	mL	03/18/25	PB1

***Analytical Methods:**

P **SW846 3005A/6010D**
MS **SW846 3005A/6020B**

Quality Control Summary

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

QC Summary

Report Date: April 3, 2025

Central Plateau Cleanup Company
200 East / MO-277 / 108
PO Box 1600
Richland, Washington

Contact: **Ms. Heather Medley**

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2762941												
QC1206031523 LCS												
Chromium	50.0				51.9	ug/L		104	(80%-120%)	RM4	04/02/25	20:27
Copper	50.0				52.9	ug/L		106	(80%-120%)			
Manganese	50.0				52.9	ug/L		106	(80%-120%)			
Molybdenum	50.0				53.2	ug/L		106	(80%-120%)			
Nickel	50.0				52.0	ug/L		104	(80%-120%)			
QC1206031522 MB												
Chromium				U	3.00	ug/L					04/02/25	20:23
Copper				U	0.300	ug/L						
Manganese				U	1.00	ug/L						
Molybdenum				U	0.200	ug/L						
Nickel				U	0.600	ug/L						
QC1206031524 713030001 MS												
Chromium	50.0	U	3.00		51.5	ug/L		102	(75%-125%)		04/02/25	20:42
Copper	50.0	U	0.300		52.7	ug/L		105	(75%-125%)			

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

QC Summary

Workorder: **713032**

Parmname	NOM		Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2762941											
Manganese	50.0	U	1.00		52.0	ug/L		104	(75%-125%)	RM4	04/02/25 20:42
Molybdenum	50.0	U	0.200		53.1	ug/L		106	(75%-125%)		
Nickel	50.0	U	0.600		51.6	ug/L		103	(75%-125%)		
QC1206031525 713030001 MSD											
Chromium	50.0	U	3.00		51.3	ug/L	0.498	102	(0%-20%)		04/02/25 20:46
Copper	50.0	U	0.300		51.9	ug/L	1.4	104	(0%-20%)		
Manganese	50.0	U	1.00		52.2	ug/L	0.355	104	(0%-20%)		
Molybdenum	50.0	U	0.200		53.2	ug/L	0.269	106	(0%-20%)		
Nickel	50.0	U	0.600		51.4	ug/L	0.375	103	(0%-20%)		
QC1206031526 713030001 SDILT											
Chromium		U	0.343	DU	15.0	ug/L	N/A		(0%-20%)		04/02/25 20:53
Copper		U	0.0660	DU	1.50	ug/L	N/A		(0%-20%)		
Manganese		U	0.103	DU	5.00	ug/L	N/A		(0%-20%)		
Molybdenum		U	0.0260	DU	1.00	ug/L	N/A		(0%-20%)		
Nickel		U	0.0430	DU	3.00	ug/L	N/A		(0%-20%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date Time
Metals Analysis-ICP										
Batch 2762940										
QC1206031514 LCS										
Iron	5000			5010	ug/L		100	(80%-120%)	JWJ	03/28/25 19:57
Zinc	500			443	ug/L		88.5	(80%-120%)		
QC1206031513 MB										
Iron			U	30.0	ug/L					03/28/25 19:54
Zinc			U	3.30	ug/L					
QC1206031515 713030001 MS										
Iron	5000 U	30.0		5100	ug/L		102	(75%-125%)		03/28/25 20:02
Zinc	500 U	3.30		457	ug/L		91.2	(75%-125%)		
QC1206031516 713030001 MSD										
Iron	5000 U	30.0		5210	ug/L	2.23	104	(0%-20%)		03/28/25 20:04
Zinc	500 U	3.30		472	ug/L	3.11	94.1	(0%-20%)		
QC1206031517 713030001 SDILT										
Iron	U	6.08	DU	150	ug/L	N/A		(0%-20%)		03/28/25 20:09
Zinc	U	1.18	DU	16.5	ug/L	N/A		(0%-20%)		

Notes:

The Qualifiers in this report are defined as follows:

- 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.
- * Duplicate analysis not within control limits
- Z Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time

B	The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).
D	Results are reported from a diluted aliquot of sample.
E	Reported value is estimated due to interferences. See comment in narrative.
M	Duplicate precision not met.
S	Reported value determined by the Method of Standard Additions (MSA)
W	Post-digestion spike recovery for GFAA out of control limit. Sample absorbency < 50% of spike absorbency.
Y	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
+	Correlation coefficient for Method of Standard Additions (MSA) is < 0.995
C	Target analyte was detected in the sample and the associated blank. The associated blank concentration is >= EQL or is > 5% of the measured concentration and/or decision level for associated samples.
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.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance 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.
* Indicates that a Quality Control parameter was not within specifications.
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.

General Chem Analysis

Case Narrative

General Chemistry
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL713032
Work Order #: 713032

Product: **Carbon, Total Organic**
Analytical Method: SW846 9060A
Analytical Procedure: GL-GC-E-093 REV# 22
Analytical Batch: 2771854

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

GEL Sample ID#	Client Sample Identification
713032001	B4L079
713032003	B4L0N1
1206050175	Method Blank (MB)
1206050176	Laboratory Control Sample (LCS)
1206050179	712760008(B4L075) Sample Duplicate (DUP)
1206050180	712760008(B4L075) Post Spike (PS)

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: **Solids, Total Dissolved**
Analytical Method: 2540C_TDS
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batches: 2765164 and 2765167

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

GEL Sample ID#	Client Sample Identification
713032001	B4L079
713032003	B4L0N1
1206036280	Method Blank (MB)
1206036281	Laboratory Control Sample (LCS)
1206036282	712760008(B4L075) Sample Duplicate (DUP)
1206036290	Method Blank (MB)
1206036291	Laboratory Control Sample (LCS)
1206036292	713032003(B4L0N1) 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: **Sulfide, Total**
Analytical Method: 4500D_SULFIDE
Analytical Procedure: GL-GC-E-052 REV# 14
Analytical Batch: 2762753

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

GEL Sample ID#	Client Sample Identification
713032001	B4L079
713032003	B4L0N1
1206031097	Method Blank (MB)
1206031098	Laboratory Control Sample (LCS)
1206031101	713032001(B4L079) Post Spike (PS)
1206031102	713032001(B4L079) Post Spike Duplicate (PSD)

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: **Alkalinity**
Analytical Method: 2320B_ALKALINITY
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2762640

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

GEL Sample ID#	Client Sample Identification
713032001	B4L079
713032003	B4L0N1
1206030808	Laboratory Control Sample (LCS)
1206030811	Laboratory Control Sample (LCS)
1206030812	Laboratory Control Sample Duplicate (LCSD)
1206030813	Laboratory Control Sample Duplicate (LCSD)

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.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 713032001 (B4L079) and 713032003 (B4L0N1).

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: GEL713032 GEL Work Order: 713032

The Qualifiers in this report are defined as follows:

B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).

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: Kristen Mizzell **Name: Kristen Mizzell**

Date: 04 APR 2025 **Title: Group Leader**

Sample Data Summary

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

Certificate of Analysis

Report Date: April 4, 2025

Company : Central Plateau Cleanup Company
Address : 200 East / MO-277 / 108
PO Box 1600
Richland, Washington 99352
Contact: Ms. Heather Medley
Project: SAF S25-003

Client Sample ID: B4L079
Sample ID: 713032001
Matrix: WATER
Collect Date: 06-MAR-25 11:32
Receive Date: 08-MAR-25
Collector: Client

Project: CPRC0S25003
Client ID: CPRC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
9060_TOC: COMMON "As Received"												
Total Organic Carbon #1	U	330	330	1000	ug/L		1	KB3	03/27/25	0211	2771854	1
Total Organic Carbon #2	B	355	330	1000	ug/L		1					
Total Organic Carbon #3	U	330	330	1000	ug/L		1					
Total Organic Carbon #4	U	330	330	1000	ug/L		1					
Total Organic Carbon Average	U	330	330	1000	ug/L		1					
Solids Analysis												
2540C_TDS: COMMON "As Received"												
Total Dissolved Solids		413000	2380	10000	ug/L			RR4	03/13/25	1531	2765164	2
Spectrometric Analysis												
4500_Sulfide: COMMON "As Received"												
Total Sulfide	U	33.0	33.0	500	ug/L		1	JW2	03/10/25	1308	2762753	3
Titration and Ion Analysis												
2320_ALKALINITY: GW 01 "As Received"												
Alkalinity, Total as CaCO3		113000	725	2000	ug/L			JW2	03/10/25	1159	2762640	4
Bicarbonate alkalinity (CaCO3)		113000	725	2000	ug/L							
Carbonate alkalinity (CaCO3)	U	725	725	2000	ug/L							
Hydroxide alkalinity as CaCO3	U	725	725	2000	ug/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9060A	
2	2540C_TDS	
3	4500D_SULFIDE	
4	2320B_ALKALINITY	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: April 4, 2025

Company : Central Plateau Cleanup Company
Address : 200 East / MO-277 / 108
PO Box 1600
Richland, Washington 99352
Contact: Ms. Heather Medley
Project: SAF S25-003

Client Sample ID: B4L0N1
Sample ID: 713032003
Matrix: WATER
Collect Date: 06-MAR-25 12:22
Receive Date: 08-MAR-25
Collector: Client

Project: CPRC0S25003
Client ID: CPRC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
9060_TOC: COMMON "As Received"												
Total Organic Carbon #1		3830	330	1000	ug/L		1	KB3	03/27/25	0242	2771854	1
Total Organic Carbon #2		3890	330	1000	ug/L		1					
Total Organic Carbon #3		4050	330	1000	ug/L		1					
Total Organic Carbon #4		3890	330	1000	ug/L		1					
Total Organic Carbon Average		3920	330	1000	ug/L		1					
Solids Analysis												
2540C_TDS: COMMON "As Received"												
Total Dissolved Solids		385000	2380	10000	ug/L			RR4	03/13/25	1650	2765167	2
Spectrometric Analysis												
4500_Sulfide: COMMON "As Received"												
Total Sulfide	U	33.0	33.0	500	ug/L		1	JW2	03/10/25	1308	2762753	3
Titration and Ion Analysis												
2320_ALKALINITY: GW 01 "As Received"												
Alkalinity, Total as CaCO3		103000	725	2000	ug/L			JW2	03/10/25	1200	2762640	4
Bicarbonate alkalinity (CaCO3)		103000	725	2000	ug/L							
Carbonate alkalinity (CaCO3)	U	725	725	2000	ug/L							
Hydroxide alkalinity as CaCO3	U	725	725	2000	ug/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9060A	
2	2540C_TDS	
3	4500D_SULFIDE	
4	2320B_ALKALINITY	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

Quality Control Summary

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

QC Summary

Report Date: April 4, 2025

Central Plateau Cleanup Company
200 East / MO-277 / 108
PO Box 1600
Richland, Washington

Contact: **Ms. Heather Medley**

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Carbon Analysis										
Batch 2771854										
QC1206050179 712760008 DUP										
Total Organic Carbon #1		1950		1950	ug/L	0.102	^	(+/-1000)	KB3	03/26/25 23:21
Total Organic Carbon #2		2320		2240	ug/L	3.11	^	(+/-1000)		
Total Organic Carbon #3		1920		2230	ug/L	14.7	^	(+/-1000)		
Total Organic Carbon #4		2170		2080	ug/L	4.19	^	(+/-1000)		
Total Organic Carbon Average		2090		2130	ug/L	1.66	^	(+/-1000)		
QC1206050176 LCS										
Total Organic Carbon Average	10000			10400	ug/L		104	(80%-120%)		03/26/25 21:03
QC1206050175 MB										
Total Organic Carbon Average			U	330	ug/L					03/26/25 20:44
QC1206050180 712760008 PS										
Total Organic Carbon #1	10.0	1.95		11.8	mg/L		98.2	(75%-125%)		03/26/25 23:53
Total Organic Carbon #2	10.0	2.32		12.6	mg/L		103	(75%-125%)		
Total Organic Carbon #3	10.0	1.92		12.0	mg/L		101	(75%-125%)		
Total Organic Carbon #4	10.0	2.17		12.3	mg/L		101	(75%-125%)		
Total Organic Carbon Average	10.0	2.09		12.2	mg/L		101	(75%-125%)		

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2765164										
QC1206036282 712760008 DUP										
Total Dissolved Solids		415000		432000	ug/L	4.01		(0%-20%)	RR4	03/13/25 15:31
QC1206036281 LCS										
Total Dissolved Solids	300000			295000	ug/L		98.3	(80%-120%)		03/13/25 15:31
QC1206036280 MB										
Total Dissolved Solids			U	2380	ug/L					03/13/25 15:31
Batch 2765167										
QC1206036292 713032003 DUP										
Total Dissolved Solids		385000		404000	ug/L	4.82		(0%-20%)	RR4	03/13/25 16:50
QC1206036291 LCS										
Total Dissolved Solids	300000			285000	ug/L		95	(80%-120%)		03/13/25 16:50
QC1206036290 MB										
Total Dissolved Solids			U	2380	ug/L					03/13/25 16:50
Spectrometric Analysis										
Batch 2762753										
QC1206031098 LCS										
Total Sulfide	400			404	ug/L		101	(80%-120%)	JW2	03/10/25 13:08
QC1206031097 MB										
Total Sulfide			U	33.0	ug/L					03/10/25 13:08
QC1206031101 713032001 PS										
Total Sulfide	0.400	U -0.00472		0.381	mg/L		95.2	(75%-125%)		03/10/25 13:08
QC1206031102 713032001 PSD										
Total Sulfide	0.400	U -0.00472		0.372	mg/L	2.27	93	(0%-20%)		03/10/25 13:08

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

QC Summary

Workorder: **713032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2762640										
QC1206030808 LCS										
Alkalinity, Total as CaCO3	50000			53300	ug/L		107	(80%-120%)	JW2	03/10/25 11:44
QC1206030811 LCS										
Alkalinity, Total as CaCO3	15000			15400	ug/L		103	(80%-120%)		03/10/25 11:46
QC1206030812 LCSD										
Alkalinity, Total as CaCO3	50000			53600	ug/L	0.561	107	(0%-20%)		03/10/25 11:45
QC1206030813 LCSD										
Alkalinity, Total as CaCO3	15000			15500	ug/L	0.647	103	(0%-20%)		03/10/25 11:47

Notes:

The Qualifiers in this report are defined as follows:

- 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.
- > Result greater than quantifiable range or greater than upper limit of the analysis range
- 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.
- Y Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).
- C Target analyte was detected in the sample and the associated blank. The associated blank concentration is >= EQL or is > 5% of the measured concentration and/or decision level for associated samples.
- < Sample is below the EPA guidance level for Reactive Releasable Cyanide and/or Reactive Releasable Sulfide
- 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.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance 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.
* Indicates that a Quality Control parameter was not within specifications.
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.

Radiological Analysis

Case Narrative

Radiochemistry
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL713032
Work Order #: 713032

Product: **SMR_I129LOWLEVEL_RAD**
Analytical Method: DOE EML HASL-300,I-01 Modified
Analytical Procedure: GL-RAD-A-006 REV# 23
Analytical Batch: 2763614

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

GEL Sample ID#	Client Sample Identification
713032003	B4L0N1
1206033016	Method Blank (MB)
1206033017	712745002(NonSDG) Sample Duplicate (DUP)
1206033018	712745002(NonSDG) Matrix Spike (MS)
1206033019	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_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
713032003	B4L0N1
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.

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: GEL713032 GEL Work Order: 713032

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: John Petrovic **Name: John Petrovic**

Date: 03 APR 2025 **Title: Data Validator**

Sample Data Summary

Rad
Certificate of Analysis
Sample Summary

SDG Number:	**GEL713032**	**Client:**	**CPRC003**	**Project:**	**CPRC0S25003**
Lab Sample ID:	**713032003**	**Date Collected:**	**03/06/2025 12:22**	**Matrix:**	**WATER**
		Date Received:	**03/08/2025 10:00**		
Client ID:	**B4L0N1**			**Prep Basis:**	**"As Received"**
Batch ID:	**2763614**	**Method:**	**DOE EML HASL-300,I-01 Mo**	**SOP Ref:**	**GL-RAD-A-006**
Run Date:	**04/02/2025 07:47**	**Analyst:**	**MJH1**	**Instrument:**	**XRAY8**
Data File:	**I713032003.CNF;1**	**Aliquot:**	**1.5359 L**	**Count Time:**	**120 min**
Prep Batch:	**2763614**	**Prep Method:**	**DOE EML HASL-300,I-01 M**		
Prep Date:	**04/01/2025 16:01**				

CAS No.	Parmname	Qual	Result	Units	Uncert	TPU	MDC	RDL
15046-84-1	Iodine-129	U	0.0737	pCi/L	+/-0.187	0.190	0.393	1.00

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:	**GEL713032**	**Client:**	**CPRC003**	**Project:**	**CPRC0S25003**
Lab Sample ID:	**713032003**	**Date Collected:**	**03/06/2025 12:22**	**Matrix:**	**WATER**
		Date Received:	**03/08/2025 10:00**		
Client ID:	**B4L0N1**			**Prep Basis:**	**"As Received"**
Batch ID:	**2763240**	**Method:**	**TC99_LSC**	**SOP Ref:**	**GL-RAD-A-059**
Run Date:	**04/02/2025 07:02**	**Analyst:**	**GS3**	**Instrument:**	**LSCOPAL**
Data File:	**E2763240.xls**	**Aliquot:**	**100.41 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		102	pCi/L	+/-19.3	22.4	24.1	50.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
Technetium-99m Tracer	6.65E+05	6.79E+05	CPM	97.9	(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.

Quality Control Data

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

QC Summary

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

Workorder: **713032**

Report Date: April 3, 2025

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date Time
Rad Gamma Spec									
Batch 2763614									
QC1206033016 MB									
Iodine-129			U	-0.108	pCi/L			MJH1	04/02/2510:47
	Uncert:			+/-0.310					
	TPU:			+/-0.314					
QC1206033017 712745002 DUP									
Iodine-129		2.16		2.13	pCi/L				04/02/2510:48
	Uncert:	+/-0.516		+/-0.933		RPD: 1	(0% - 100%)		
	TPU:	+/-0.559		+/-0.957		RER: 0.0389	(0-2)		
QC1206033018 712745002 MS									
Iodine-129	39.4	2.16		41.6	pCi/L	REC: 100	(75%-125%)		04/02/2510:37
	Uncert:	+/-0.516		+/-3.71					
	TPU:	+/-0.559		+/-5.56					
QC1206033019 LCS									
Iodine-129	30.4			31.6	pCi/L	REC: 104	(80%-120%)		04/02/2510:37
	Uncert:			+/-2.63					
	TPU:			+/-4.10					
Rad Liquid Scintillation									
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%)		

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.
J	The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).Value is estimated
P	Aroclor target analyte with greater than 25% difference between column analyses.

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

QC Summary

Workorder: **713032**

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

C	Analyte has been confirmed by GC/MS analysis
B	The analyte was detected in both the associated QC blank and in the sample.
E	Concentration exceeds the calibration range of the instrument
A	The TIC is a suspected aldol-condensation product
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Spike Sample recovery is outside control limits.
*	Duplicate analysis not within control limits
>	Result greater than quantifiable range or greater than upper limit of the analysis range
Z	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
B	The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).
D	Results are reported from a diluted aliquot of sample.
E	Reported value is estimated due to interferences. See comment in narrative.
M	Duplicate precision not met.
O	Analyte failed to recover within LCS limits (0rganics only)
S	Reported value determined by the Method of Standard Additions (MSA)
T	Spike and/or spike duplicate sample recovery is outside control limits.
W	Post-digestion spike recovery for GFAA out of control limit. Sample absorbency < 50% of spike absorbency.
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
+	Correlation coefficient for Method of Standard Additions (MSA) is < 0.995
C	Target analyte was detected in the sample and the associated blank. The associated blank concentration is >= EQL or is > 5% of the measured concentration and/or decision level for associated samples.
<	Sample is below the EPA guidance level for Reactive Releasable Cyanide and/or Reactive Releasable Sulfide
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.