GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

June 30, 2025

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

Re: SAF X25-003
Work Order: 727100
SDG: GEL727100

Dear Ms. Medley:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 04, 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: X25-003-253
Enclosures

problem solved

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Case Narrative

General Narrative
for
Central Plateau Cleanup Company (89223)
SAF X25-003
SDG: GEL727100

June 30, 2025

Laboratory Identification:

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

Summary

Sample receipt

The sample(s) arrived at GEL Laboratories, LLC, Charleston, South Carolina on June 04, 2025, for analysis. The sample was 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 sample:

Laboratory Identification	Sample Description
727100001	B4M068

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.

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

GC/MS Volatile
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL727100
Work Order #: 727100

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.

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

C.O.C. # **X25-003-253**

PAGE 1 OF 1

Collector:	Rick Crabtree/CPCCo	**Contact/Requester:**	WATERS-HUSTED, K	**Telephone No.:**	376-4650
SAF No.:	X25-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901852
Project Title:	Groundwater Background Sampling, Octob	**Logbook No.:**	HNF-N-506 -147	**Ice Chest No.:**	GWS-304
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	881747705604
Protocol:	SURV	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

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

SPECIAL INSTRUCTIONS

Batch with A, I, S, and W SAFs.

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservation
B44068	N	W	JUN 03 2025	0946	4x40-mL aGs*	8260_VOA_GCMS: COMMON	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*
Rick Crabtree/CPCCo		JUN 03 2025 0955	Troy Bacon CPCC		JUN 03 2025 0955
Troy Bacon CPCC		JUN 03 2025	FEDEX		
		FedEx	Stacy Boone		JUN 04 2025 920

Matrix *

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

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

Printed On 3/4/2025 **FSR ID = FSR155969** Report Format: 02/29/2024

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CPRC | SDG/AR/COC/Work Order: 727100 | GEL PM: HS

Received By: Stacy L Boone | Date Received at GEL: June 4, 2025

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

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

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
8817 4559 5493	1 c				
4282 4180	1 c				
4288 2790	1 c				
4770 5600	1 c				

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 indication of 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): ✓ CPM mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

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

Comments:

PM (or PMA) review: Initials _____ Date 06/05/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

Data Review Qualifier Definitions

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

Project Specific Qualifier Definitions for GEL Client Code: CPRC

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

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

Project Specific Qualifier Definitions for GEL Client Code: CPRC

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

Laboratory Certifications

List of current GEL Certifications as of 30 June 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 #: GEL727100
Work Order #: 727100

Product: **Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer**
Analytical Method: SW846 8260D
Analytical Procedure: GL-OA-E-038 REV# 31
Analytical Batch: 2815196

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

GEL Sample ID#	Client Sample Identification
727100001	B4M068
1206143921	Laboratory Control Sample (LCS)
1206143922	Method Blank (MB)
1206143923	727339001(B4M069) Matrix Spike (MS)
1206143924	727339001(B4M069) Matrix Spike Duplicate (MSD)
1206144679	Laboratory Control Sample (LCS)
1206144680	Method Blank (MB)

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: GEL727100 GEL Work Order: 727100

The Qualifiers in this report are defined as follows:

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: 30 JUN 2025 **Title: Data Validator**

Sample Data Summary

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**GEL727100**	**Date Collected:**	**06/03/2025 09:46**	**Matrix:**	**WATER**
Lab Sample ID:	**727100001**	**Date Received:**	**06/04/2025 09:20**		
		Client:	**CPRC003**	**Project:**	**CPRC0X25003**
Client ID:	**B4M068**	**Method:**	**SW846 8260D**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**2815196**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**06/17/2025 22:09**	**Analyst:**	**AXH5**	**Purge Vol:**	**5 mL**
Prep Date:	**06/17/2025 22:09**				
Data File:	**061725V5\5R232.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-01-4	Vinyl chloride	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
75-15-0	Carbon disulfide	U	1.67	ug/L	1.67	5.00	5.00
75-09-2	Methylene chloride		5.54	ug/L	0.500	5.00	5.00
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
67-66-3	Chloroform	U	0.333	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	U	0.333	ug/L	0.333	1.00	5.00
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
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
79-00-5	1,1,2-Trichloroethane	U	0.333	ug/L	0.333	1.00	5.00
127-18-4	Tetrachloroethylene	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	5.00
1330-20-7	Xylenes (total)	U	1.00	ug/L	1.00	3.00	10.0

Quality Control Summary

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

QC Summary

Report Date: June 20, 2025

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

Contact: **Ms. Heather Medley**

Workorder: **727100**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2815196											
QC1206143921 LCS											
1,1,1-Trichloroethane	50.0			52.0	ug/L		104	(70%-130%)	AXH5	06/17/25	14:08
1,1,2-Trichloroethane	50.0			53.0	ug/L		106	(70%-120%)			
1,1-Dichloroethane	50.0			54.3	ug/L		109	(75%-126%)			
1,1-Dichloroethylene	50.0			51.6	ug/L		103	(72%-136%)			
1,2-Dichloroethane	50.0			50.6	ug/L		101	(64%-129%)			
2-Butanone	250			288	ug/L		115	(63%-134%)			
4-Methyl-2-pentanone	250			293	ug/L		117	(65%-125%)			
Acetone	250			276	ug/L		111	(56%-149%)			
Benzene	50.0			50.0	ug/L		100	(74%-128%)			
Carbon disulfide	250			310	ug/L		124	(63%-133%)			
Carbon tetrachloride	50.0			51.5	ug/L		103	(70%-135%)			
Chlorobenzene	50.0			50.0	ug/L		100	(74%-120%)			

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QC Summary

Workorder: **727100**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2815196											
Chloroform	50.0			52.3	ug/L		105	(74%-122%)	AXH5	06/17/25	14:08
Ethylbenzene	50.0			54.5	ug/L		109	(71%-121%)			
Methylene chloride	50.0			54.2	ug/L		108	(65%-121%)			
Tetrachloroethylene	50.0			53.1	ug/L		106	(70%-130%)			
Toluene	50.0			53.4	ug/L		107	(73%-121%)			
Trichloroethylene	50.0			50.7	ug/L		101	(76%-126%)			
Vinyl chloride	50.0			50.5	ug/L		101	(63%-144%)			
Xylenes (total)	150			162	ug/L		108	(74%-124%)			
**1,2-Dichloroethane-d4	50.0			51.6	ug/L		103	(76%-127%)			
**Bromofluorobenzene	50.0			47.2	ug/L		94	(74%-123%)			
**Toluene-d8	50.0			50.1	ug/L		100	(77%-121%)			
QC1206144679 LCS											
1,1,1-Trichloroethane	50.0			47.1	ug/L		94	(70%-130%)		06/18/25	09:42
1,1,2-Trichloroethane	50.0			47.4	ug/L		95	(70%-120%)			
1,1-Dichloroethane	50.0			51.4	ug/L		103	(75%-126%)			

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QC Summary

Workorder: **727100**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2815196										
1,1-Dichloroethylene	50.0			47.7	ug/L		95	(72%-136%)	AXH5	06/18/25 09:42
1,2-Dichloroethane	50.0			44.9	ug/L		90	(64%-129%)		
2-Butanone	250			267	ug/L		107	(63%-134%)		
4-Methyl-2-pentanone	250			265	ug/L		106	(65%-125%)		
Acetone	250			262	ug/L		105	(56%-149%)		
Benzene	50.0			46.2	ug/L		92	(74%-128%)		
Carbon disulfide	250			294	ug/L		118	(63%-133%)		
Carbon tetrachloride	50.0			47.2	ug/L		94	(70%-135%)		
Chlorobenzene	50.0			45.3	ug/L		91	(74%-120%)		
Chloroform	50.0			47.3	ug/L		95	(74%-122%)		
Ethylbenzene	50.0			50.3	ug/L		101	(71%-121%)		
Methylene chloride	50.0			50.9	ug/L		102	(65%-121%)		
Tetrachloroethylene	50.0			48.8	ug/L		98	(70%-130%)		
Toluene	50.0			49.3	ug/L		99	(73%-121%)		

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

QC Summary

Workorder: **727100**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2815196										
Trichloroethylene	50.0			47.3	ug/L		95	(76%-126%)	AXH5	06/18/25 09:42
Vinyl chloride	50.0			63.0	ug/L		126	(63%-144%)		
Xylenes (total)	150			149	ug/L		99	(74%-124%)		
**1,2-Dichloroethane-d4	50.0			49.7	ug/L		99	(76%-127%)		
**Bromofluorobenzene	50.0			45.5	ug/L		91	(74%-123%)		
**Toluene-d8	50.0			50.1	ug/L		100	(77%-121%)		
QC1206143922 MB										
1,1,1-Trichloroethane			U	0.333	ug/L					06/17/25 14:59
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-Dichloroethane			U	0.333	ug/L					
2-Butanone			U	1.67	ug/L					
4-Methyl-2-pentanone			U	1.67	ug/L					
Acetone			U	1.74	ug/L					

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QC Summary

Workorder: **727100**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2815196										
Benzene			U	0.333	ug/L				AXH5	06/17/25 14:59
Carbon disulfide			U	1.67	ug/L					
Carbon tetrachloride			U	0.333	ug/L					
Chlorobenzene			U	0.333	ug/L					
Chloroform			U	0.333	ug/L					
Ethylbenzene			U	0.333	ug/L					
Methylene chloride			U	0.500	ug/L					
Tetrachloroethylene			U	0.333	ug/L					
Toluene			U	0.333	ug/L					
Trichloroethylene			U	0.333	ug/L					
Vinyl chloride			U	0.333	ug/L					
Xylenes (total)			U	1.00	ug/L					
**1,2-Dichloroethane-d4	50.0			52.9	ug/L		106	(76%-127%)		
**Bromofluorobenzene	50.0			50.5	ug/L		101	(74%-123%)		

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QC Summary

Workorder: **727100**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2815196											
**Toluene-d8	50.0			53.1	ug/L		106	(77%-121%)	AXH5	06/17/25	14:59
QC1206144680 MB											
1,1,1-Trichloroethane			U	0.333	ug/L					06/18/25	10:58
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-Dichloroethane			U	0.333	ug/L						
2-Butanone			U	1.67	ug/L						
4-Methyl-2-pentanone			U	1.67	ug/L						
Acetone			U	1.74	ug/L						
Benzene			U	0.333	ug/L						
Carbon disulfide			U	1.67	ug/L						
Carbon tetrachloride			U	0.333	ug/L						
Chlorobenzene			U	0.333	ug/L						
Chloroform			U	0.333	ug/L						

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QC Summary

Workorder: **727100**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2815196											
Ethylbenzene				U	0.333	ug/L				AXH5	06/18/25 10:58
Methylene chloride				U	0.500	ug/L					
Tetrachloroethylene				U	0.333	ug/L					
Toluene				U	0.333	ug/L					
Trichloroethylene				U	0.333	ug/L					
Vinyl chloride				U	0.333	ug/L					
Xylenes (total)				U	1.00	ug/L					
**1,2-Dichloroethane-d4	50.0				49.1	ug/L		98	(76%-127%)		
**Bromofluorobenzene	50.0				46.7	ug/L		93	(74%-123%)		
**Toluene-d8	50.0				50.1	ug/L		100	(77%-121%)		
QC1206143923 727339001 MS											
1,1,1-Trichloroethane	50.0	U	0.333		51.0	ug/L		102	(56%-133%)		06/18/25 15:10
1,1,2-Trichloroethane	50.0	U	0.333		52.7	ug/L		105	(68%-123%)		
1,1-Dichloroethane	50.0	U	0.333		55.7	ug/L		111	(67%-128%)		
1,1-Dichloroethylene	50.0	U	0.333		50.3	ug/L		101	(57%-137%)		

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QC Summary

Workorder: **727100**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2815196												
1,2-Dichloroethane	50.0	U	0.333		50.3	ug/L		101	(60%-134%)	AXH5	06/18/25	15:10
2-Butanone	250	U	1.67		295	ug/L		118	(47%-134%)			
4-Methyl-2-pentanone	250	U	1.67		295	ug/L		118	(60%-132%)			
Acetone	250	U	1.74		282	ug/L		113	(50%-139%)			
Benzene	50.0	U	0.333		50.3	ug/L		101	(67%-128%)			
Carbon disulfide	250	U	1.67		310	ug/L		124	(55%-131%)			
Carbon tetrachloride	50.0	U	0.333		51.4	ug/L		103	(58%-141%)			
Chlorobenzene	50.0	U	0.333		49.3	ug/L		99	(63%-121%)			
Chloroform	50.0	U	0.333		52.4	ug/L		105	(65%-128%)			
Ethylbenzene	50.0	U	0.333		54.0	ug/L		108	(58%-123%)			
Methylene chloride	50.0	J	0.640		56.7	ug/L		112	(58%-123%)			
Tetrachloroethylene	50.0	U	0.333		51.6	ug/L		103	(56%-126%)			
Toluene	50.0	U	0.333		53.2	ug/L		106	(63%-121%)			
Trichloroethylene	50.0	U	0.333		50.6	ug/L		101	(61%-130%)			

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QC Summary

Workorder: **727100**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2815196											
Vinyl chloride	50.0	U	0.333		64.3	ug/L		129	(49%-153%)	AXH5	06/18/25 15:10
Xylenes (total)	150	U	1.00		161	ug/L		107	(55%-129%)		
**1,2-Dichloroethane-d4	50.0		48.3		53.1	ug/L		106	(76%-127%)		
**Bromofluorobenzene	50.0		45.4		48.1	ug/L		96	(74%-123%)		
**Toluene-d8	50.0		49.8		52.3	ug/L		105	(77%-121%)		
QC1206143924 727339001 MSD											
1,1,1-Trichloroethane	50.0	U	0.333		50.0	ug/L	2	100	(0%-20%)		06/18/25 15:35
1,1,2-Trichloroethane	50.0	U	0.333		43.9	ug/L	18	88	(0%-20%)		
1,1-Dichloroethane	50.0	U	0.333		54.6	ug/L	2	109	(0%-20%)		
1,1-Dichloroethylene	50.0	U	0.333		50.3	ug/L	0	101	(0%-20%)		
1,2-Dichloroethane	50.0	U	0.333		50.7	ug/L	1	101	(0%-20%)		
2-Butanone	250	U	1.67		300	ug/L	2	120	(0%-20%)		
4-Methyl-2-pentanone	250	U	1.67		249	ug/L	17	100	(0%-20%)		
Acetone	250	U	1.74		281	ug/L	0	112	(0%-20%)		
Benzene	50.0	U	0.333		49.8	ug/L	1	100	(0%-20%)		

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QC Summary

Workorder: **727100**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2815196												
Carbon disulfide	250	U	1.67		305	ug/L	2	122	(0%-20%)	AXH5	06/18/25	15:35
Carbon tetrachloride	50.0	U	0.333		49.7	ug/L	3	99	(0%-20%)			
Chlorobenzene	50.0	U	0.333		41.5	ug/L	17	83	(0%-20%)			
Chloroform	50.0	U	0.333		51.7	ug/L	1	103	(0%-20%)			
Ethylbenzene	50.0	U	0.333		45.5	ug/L	17	91	(0%-20%)			
Methylene chloride	50.0	J	0.640		56.3	ug/L	1	111	(0%-20%)			
Tetrachloroethylene	50.0	U	0.333		42.8	ug/L	19	86	(0%-20%)			
Toluene	50.0	U	0.333		44.2	ug/L	18	88	(0%-20%)			
Trichloroethylene	50.0	U	0.333		50.4	ug/L	0	101	(0%-20%)			
Vinyl chloride	50.0	U	0.333		61.0	ug/L	5	122	(0%-20%)			
Xylenes (total)	150	U	1.00		135	ug/L	18	90	(0%-20%)			
**1,2-Dichloroethane-d4	50.0		48.3		52.7	ug/L		105	(76%-127%)			
**Bromofluorobenzene	50.0		45.4		47.3	ug/L		95	(74%-123%)			
**Toluene-d8	50.0		49.8		43.8	ug/L		88	(77%-121%)			

Notes:

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QC Summary

Workorder: **727100**

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

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.

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: GEL727100

Matrix Type: LIQUID

Sample ID	Client ID	DCED4 %REC	TOL %REC	BFB %REC
1206143921	LCS for batch 2815196	103	100	94
1206143922	MB for batch 2815196	106	106	101
727100001	B4M068	94	98	92
1206144679	LCS for batch 2815196	99	100	91
1206144680	MB for batch 2815196	98	100	93
1206143923	B4M069MS	106	105	96
1206143924	B4M069MSD	105	88	95

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