GEL Laboratories LLC
a member of The GEL Group INC

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

July 09, 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: 728577
SDG: GEL728577

Dear Ms. Medley:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 12, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

Sincerely,

Latarsha Green

Latarsha Green for
Heather Shaffer
Project Manager

Purchase Order: 901852 - 7H
Chain of Custody: X25-003-258
Enclosures

problem solved

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Case Narrative

General Narrative
for
Central Plateau Cleanup Company (89223)
SAF X25-003
SDG: GEL728577

July 09, 2025

Laboratory Identification:

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

Summary

Sample receipt

The sample(s) arrived at GEL Laboratories, LLC, Charleston, South Carolina on June 12, 2025, for analysis. The 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
728577001	B4M073

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

GC/MS Volatile
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL728577
Work Order #: 728577

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.

Technical Information

Sample Dilutions/Methanol Dilutions
Sample 728577001 (B4M073) was diluted because target analyte concentrations exceeded the calibration range.

Analyte	**728577**
	001
Methylene chloride	5X

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. # X25-003-258

PAGE 1 OF 1

Collector:	Mike Esparza / CPCC	**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-506 146	**Ice Chest No.:**	gws-086
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	8819 5155 4120
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 49 CFR/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
B4M073	N	W	JUN 11 2025	0825	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*
Mike Esparza / CPCC		JUN 11 2025 0900	Troy Bacon CPCC	Troy Bacon	JUN 11 2025 0900
Troy Bacon CPCC	Troy Bacon	JUN 11 2025 1400	FEDEX		
FedEx			Stacy Boone	JUN 12 2025	920

Matrix *

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

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

Printed On 3/4/2025 FSR ID = FSR155974 Report Format: 02/29/2024

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CPRC | SDG/AR/COC/Work Order: 728577 | GEL PM: HS

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

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

IR Temp gun # 1R1-24 · 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).
8819 5327 8934	1		8819 4770 8340	3	
4778 3015	4				
5155 4120	3				
5362 5666	2				
5719 5686	5				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		/	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?	/		COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	/		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr Classified as: (Rad 1) Rad 2 Rad 3
D) Are there any sample hazards to document?		/	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		/	Circle Applicable: See additional Comments below. No additional comments needed after review.

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

Comments:

PM (or PMA) review: Initials YY Date 06/13/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

Data Review Qualifier Definitions

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

Project Specific Qualifier Definitions for GEL Client Code: CPRC

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

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 09 July 2025

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

Volatile Analysis

Case Narrative

GC/MS Volatile
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL728577
Work Order #: 728577

Product: **Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer**
Analytical Method: SW846 8260D
Analytical Procedure: GL-OA-E-038 REV# 31
Analytical Batch: 2818483

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

GEL Sample ID#	Client Sample Identification
728577001	B4M073
1206150077	Laboratory Control Sample (LCS)
1206150079	Method Blank (MB)
1206150080	728284001(B4M072) Matrix Spike (MS)
1206150081	728284001(B4M072) 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

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.

Technical Information

Sample Dilutions/Methanol Dilutions
Sample 728577001 (B4M073) was diluted because target analyte concentrations exceeded the calibration range.

Analyte	728577
	001
Methylene chloride	5X

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: GEL728577 GEL Work Order: 728577

The Qualifiers in this report are defined as follows:

D Results are reported from a diluted aliquot of sample.
T Spike and/or spike duplicate sample recovery is outside control limits.
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: 09 JUL 2025 **Title: Data Validator**

Sample Data Summary

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**GEL728577**	**Date Collected:**	**06/11/2025 08:25**	**Matrix:**	**WATER**
Lab Sample ID:	**728577001**	**Date Received:**	**06/12/2025 09:20**		
		Client:	**CPRC003**	**Project:**	**CPRC0X25003**
Client ID:	**B4M073**	**Method:**	**SW846 8260D**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**2818483**	**Inst:**	**VOA3.I**	**Dilution:**	**1**
Run Date:	**06/24/2025 11:24**	**Analyst:**	**KA1**	**Purge Vol:**	**5 mL**
Prep Date:	**06/24/2025 11:24**				
Data File:	**062425V3\3Y210.D**	**Column:**	**60 m x 250 ¿m x 1.4 ¿m (U**		

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
75-34-3	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

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**GEL728577**	**Date Collected:**	**06/11/2025 08:25**	**Matrix:**	**WATER**
Lab Sample ID:	**728577001**	**Date Received:**	**06/12/2025 09:20**		
		Client:	**CPRC003**	**Project:**	**CPRC0X25003**
Client ID:	**B4M073DL**	**Method:**	**SW846 8260D**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**2818483**	**Inst:**	**VOA3.I**	**Dilution:**	**5**
Run Date:	**06/24/2025 18:43**	**Analyst:**	**KA1**	**Purge Vol:**	**5 mL**
Prep Date:	**06/24/2025 18:43**				
Data File:	**062425V3\3Y224.D**	**Column:**	**60 m x 250 ¿m x 1.4 ¿m (U**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-09-2	Methylene chloride	D	178	ug/L	2.50	25.0	5.00

Quality Control Summary

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

QC Summary

Report Date: June 30, 2025

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

Contact: **Ms. Heather Medley**

Workorder: **728577**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2818483											
QC1206150077 LCS											
1,1,1-Trichloroethane	50.0			49.0	ug/L		98	(70%-130%)	KA1	06/24/25	08:06
1,1,2-Trichloroethane	50.0			47.5	ug/L		95	(70%-120%)			
1,1-Dichloroethane	50.0			51.0	ug/L		102	(75%-126%)			
1,1-Dichloroethylene	50.0			55.1	ug/L		110	(72%-136%)			
1,2-Dichloroethane	50.0			50.1	ug/L		100	(64%-129%)			
2-Butanone	250			273	ug/L		109	(63%-134%)			
4-Methyl-2-pentanone	250			260	ug/L		104	(65%-125%)			
Acetone	250			261	ug/L		104	(56%-149%)			
Benzene	50.0			47.3	ug/L		95	(74%-128%)			
Carbon disulfide	250			262	ug/L		105	(63%-133%)			
Carbon tetrachloride	50.0			50.6	ug/L		101	(70%-135%)			
Chlorobenzene	50.0			48.3	ug/L		97	(74%-120%)			

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

QC Summary

Workorder: **728577**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2818483										
Chloroform	50.0			47.6	ug/L		95	(74%-122%)	KA1	06/24/25 08:06
Ethylbenzene	50.0			47.5	ug/L		95	(71%-121%)		
Methylene chloride	50.0			48.0	ug/L		96	(65%-121%)		
Tetrachloroethylene	50.0			47.0	ug/L		94	(70%-130%)		
Toluene	50.0			47.6	ug/L		95	(73%-121%)		
Trichloroethylene	50.0			49.5	ug/L		99	(76%-126%)		
Vinyl chloride	50.0			63.6	ug/L		127	(63%-144%)		
Xylenes (total)	150			142	ug/L		95	(74%-124%)		
**1,2-Dichloroethane-d4	50.0			49.0	ug/L		98	(76%-127%)		
**Bromofluorobenzene	50.0			50.2	ug/L		100	(74%-123%)		
**Toluene-d8	50.0			48.7	ug/L		97	(77%-121%)		
QC1206150079 MB										
1,1,1-Trichloroethane			U	0.333	ug/L					06/24/25 09:29
1,1,2-Trichloroethane			U	0.333	ug/L					
1,1-Dichloroethane			U	0.333	ug/L					

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QC Summary

Workorder: **728577**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2818483										
1,1-Dichloroethylene			U	0.333	ug/L				KA1	06/24/25 09:29
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					
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					

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QC Summary

Workorder: **728577**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2818483											
Trichloroethylene				U	0.333	ug/L				KA1	06/24/25 09:29
Vinyl chloride				U	0.333	ug/L					
Xylenes (total)				U	1.00	ug/L					
**1,2-Dichloroethane-d4	50.0				50.7	ug/L		101	(76%-127%)		
**Bromofluorobenzene	50.0				48.6	ug/L		97	(74%-123%)		
**Toluene-d8	50.0				50.6	ug/L		101	(77%-121%)		
QC1206150080 728284001 MS											
1,1,1-Trichloroethane	50.0	U	0.333		45.6	ug/L		91	(56%-133%)		06/24/25 16:13
1,1,2-Trichloroethane	50.0	U	0.333		47.4	ug/L		95	(68%-123%)		
1,1-Dichloroethane	50.0	U	0.333		49.5	ug/L		99	(67%-128%)		
1,1-Dichloroethylene	50.0	U	0.333		52.9	ug/L		106	(57%-137%)		
1,2-Dichloroethane	50.0	U	0.333		49.4	ug/L		99	(60%-134%)		
2-Butanone	250	U	1.67		280	ug/L		112	(47%-134%)		
4-Methyl-2-pentanone	250	U	1.67		269	ug/L		108	(60%-132%)		
Acetone	250	U	1.74		273	ug/L		109	(50%-139%)		

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QC Summary

Workorder: **728577**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2818483											
Benzene	50.0	U	0.333		45.0	ug/L		90	(67%-128%)	KA1	06/24/25 16:13
Carbon disulfide	250	U	1.67		258	ug/L		103	(55%-131%)		
Carbon tetrachloride	50.0	U	0.333		46.8	ug/L		94	(58%-141%)		
Chlorobenzene	50.0	U	0.333		46.8	ug/L		94	(63%-121%)		
Chloroform	50.0	U	0.333		46.2	ug/L		92	(65%-128%)		
Ethylbenzene	50.0	U	0.333		45.0	ug/L		90	(58%-123%)		
Methylene chloride	50.0	J	3.61		55.2	ug/L		103	(58%-123%)		
Tetrachloroethylene	50.0	U	0.333		44.0	ug/L		88	(56%-126%)		
Toluene	50.0	U	0.333		46.0	ug/L		92	(63%-121%)		
Trichloroethylene	50.0	U	0.333		46.9	ug/L		94	(61%-130%)		
Vinyl chloride	50.0	U	0.333		59.6	ug/L		119	(49%-153%)		
Xylenes (total)	150	U	1.00		136	ug/L		90	(55%-129%)		
**1,2-Dichloroethane-d4	50.0		49.4		49.8	ug/L		100	(76%-127%)		
**Bromofluorobenzene	50.0		47.2		50.6	ug/L		101	(74%-123%)		

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QC Summary

Workorder: **728577**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2818483											
**Toluene-d8	50.0		49.6		49.8	ug/L		100	(77%-121%)	KA1	06/24/25 16:13
QC1206150081 728284001 MSD											
1,1,1-Trichloroethane	50.0	U	0.333		45.6	ug/L	0	91	(0%-20%)		06/24/25 16:44
1,1,2-Trichloroethane	50.0	U	0.333		47.9	ug/L	1	96	(0%-20%)		
1,1-Dichloroethane	50.0	U	0.333		49.2	ug/L	1	98	(0%-20%)		
1,1-Dichloroethylene	50.0	U	0.333		53.8	ug/L	2	108	(0%-20%)		
1,2-Dichloroethane	50.0	U	0.333		50.1	ug/L	2	100	(0%-20%)		
2-Butanone	250	U	1.67		284	ug/L	1	113	(0%-20%)		
4-Methyl-2-pentanone	250	U	1.67		273	ug/L	1	109	(0%-20%)		
Acetone	250	U	1.74		280	ug/L	2	112	(0%-20%)		
Benzene	50.0	U	0.333		45.0	ug/L	0	90	(0%-20%)		
Carbon disulfide	250	U	1.67		262	ug/L	2	105	(0%-20%)		
Carbon tetrachloride	50.0	U	0.333		46.2	ug/L	1	92	(0%-20%)		
Chlorobenzene	50.0	U	0.333		46.7	ug/L	0	93	(0%-20%)		
Chloroform	50.0	U	0.333		46.2	ug/L	0	92	(0%-20%)		

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QC Summary

Workorder: **728577**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2818483											
Ethylbenzene	50.0	U	0.333		44.3	ug/L	2	89	(0%-20%)	KA1	06/24/25 16:44
Methylene chloride	50.0	J	3.61		56.8	ug/L	3	106	(0%-20%)		
Tetrachloroethylene	50.0	U	0.333		42.3	ug/L	4	85	(0%-20%)		
Toluene	50.0	U	0.333		45.5	ug/L	1	91	(0%-20%)		
Trichloroethylene	50.0	U	0.333		46.5	ug/L	1	93	(0%-20%)		
Vinyl chloride	50.0	U	0.333		61.2	ug/L	3	122	(0%-20%)		
Xylenes (total)	150	U	1.00		133	ug/L	2	89	(0%-20%)		
**1,2-Dichloroethane-d4	50.0		49.4		49.0	ug/L		98	(76%-127%)		
**Bromofluorobenzene	50.0		47.2		51.0	ug/L		102	(74%-123%)		
**Toluene-d8	50.0		49.6		49.3	ug/L		99	(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

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QC Summary

Workorder: **728577**

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

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: GEL728577

Matrix Type: LIQUID

Sample ID	Client ID	DCED4 %REC		TOL %REC		BFB %REC	
1206150077	LCS for batch	98		97		100	
1206150079	MB for batch	101		101		97	
728577001	B4M073	100		98		91	
1206150080	B4M072MS	100		100		101	
1206150081	B4M072MSD	98		99		102	
728577001	B4M073DL	101	D	99	D	94	D

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