

February 20, 2025

Dan Lee
Technology Laboratory, Inc.
1012 Centre Avenue
Fort Collins, Colorado 80526

Re: Radium in Groundwater
Work Order: 709146

Dear Dan Lee:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 14, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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.

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. 4422.

Sincerely,



Adrian Melendrez for
Jacob Crook
Project Manager

Purchase Order: 4902DL
Enclosures



GEL LABORATORIES LLC

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

Certificate of Analysis Report for

TELA001 Technology Laboratory, Inc

Client SDG: 709146 GEL Work Order: 709146

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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 Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jacob Crook.

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis

Company : Technology Laboratory, Inc.
Address : 1012 Centre Avenue

Fort Collins, Colorado 80526

Report Date: February 20, 2025

Contact: Dan Lee

Project: Radium in Groundwater

Client Sample ID: P124-0205-MW12
Sample ID: 709146001
Matrix: Water
Collect Date: 05-FEB-25
Receive Date: 14-FEB-25
Collector: Client

Project: TELA00122
Client ID: TELA001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Gross A/B, Liquid "As Received"</i>														
Alpha		7.81	+/-3.81	4.06	+/-4.03	5.00	pCi/L			AH4	02/19/25	1624	2751801	1
Beta		7.14	+/-3.35	4.92	+/-3.56	5.00	pCi/L							

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Technology Laboratory, Inc.
Address : 1012 Centre Avenue

Fort Collins, Colorado 80526

Report Date: February 20, 2025

Contact: Dan Lee

Project: Radium in Groundwater

Client Sample ID: P124-0205-MW12-Dup

Project: TELA00122

Sample ID: 709146002

Client ID: TELA001

Matrix: Water

Collect Date: 05-FEB-25

Receive Date: 14-FEB-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Gross A/B, Liquid "As Received"</i>														
Alpha		3.87	+/-2.87	3.86	+/-2.94	5.00	pCi/L			AH4	02/19/25	1624	2751801	1
Beta		10.1	+/-3.13	3.91	+/-3.53	5.00	pCi/L							

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

DF: Dilution Factor

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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QC Summary

Client : Technology Laboratory, Inc.
1012 Centre Avenue

Report Date: February 20, 2025
Page 1 of 2

Fort Collins, Colorado

Contact: Dan Lee

Workorder: 709146

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2751801										
QC1206009294	708793002	DUP									
Alpha		7.78		5.87	pCi/L	28		(0% - 100%)	AH4	02/19/25	18:22
		Uncert:	+/-3.04	+/-3.73							
		TPU:	+/-3.30	+/-3.85							
Beta		10.3		17.8	pCi/L	53.4		(0% - 100%)			
		Uncert:	+/-3.41	+/-3.15							
		TPU:	+/-3.81	+/-4.29							
QC1206009297	LCS										
Alpha		117		114	pCi/L		97.4	(75%-125%)	AH4	02/19/25	16:24
		Uncert:		+/-10.4							
		TPU:		+/-22.2							
Beta		381		378	pCi/L		99.4	(75%-125%)			
		Uncert:		+/-15.1							
		TPU:		+/-65.4							
QC1206009293	MB										
Alpha			U	0.0656	pCi/L				AH4	02/19/25	16:24
		Uncert:		+/-1.07							
		TPU:		+/-1.07							
Beta			U	-1.08	pCi/L						
		Uncert:		+/-1.82							
		TPU:		+/-1.82							
QC1206009295	708793002	MS									
Alpha		398	7.78	251	pCi/L		61.1*	(75%-125%)	AH4	02/19/25	16:24
		Uncert:	+/-3.04	+/-36.7							
		TPU:	+/-3.30	+/-57.2							
Beta		1290	10.3	1360	pCi/L		105	(75%-125%)			
		Uncert:	+/-3.41	+/-53.9							
		TPU:	+/-3.81	+/-231							
QC1206009296	708793002	MSD									
Alpha		394	7.78	267	pCi/L	6.38	65.9*	(0%-20%)	AH4	02/19/25	16:24
		Uncert:	+/-3.04	+/-38.2							
		TPU:	+/-3.30	+/-61.2							
Beta		1280	10.3	1430	pCi/L	4.86	111	(0%-20%)			
		Uncert:	+/-3.41	+/-55.1							
		TPU:	+/-3.81	+/-240							

Notes:

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

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QC Summary

Workorder: 709146

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
H	Analytical holding time was exceeded									
<	Result is less than value reported									
>	Result is greater than value reported									
UI	Gamma Spectroscopy--Uncertain identification									
BD	Results are either below the MDC or tracer recovery is low									
h	Preparation or preservation holding time was exceeded									
R	Sample results are rejected									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
N/A	RPD or %Recovery limits do not apply.									
ND	Analyte concentration is not detected above the detection limit									
M	M if above MDC and less than LLD									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
FA	Failed analysis.									
UJ	Gamma Spectroscopy--Uncertain identification									
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.									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.									
N1	See case narrative									
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.									
**	Analyte is a Tracer compound									
M	REMP Result > MDC/CL and < RDL									
x	Subaliquot was taken. See Case Narrative for details.									

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/tracer compound.

^ 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.

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.

Client Name: Technology Laboratory				Phone # 970-490-1414				Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)															
Project/Site Name: P124-0205				Fax #																			
Address: 1012 Centre Ave Fort Collins, CO 80526																							
Collected By: Ben Wilson				Send Results To: info@techlabusa.com																			
Sample ID				*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)		QC Code ^(a)		Field Filtered ^(b)		Sample Matrix ^(c)		Should this sample be considered:		Total number of containers		NI		Preservative Type ⁽⁶⁾		Comments	
* For composites - indicate start and stop date/time														Yes, please supply isotope info.)		(7) Known or possible hazards		Gross Alpha		Note: extra sample is required for sample specific QC			
P124-0205-MW12				2/5/2025						Y		W				1 x							
P124-0205-MW12-Dup				2/5/2025						Y		W				1 x							

GEL Laboratories LLC		SAMPLE RECEIPT & REVIEW FORM	
Client: <u>TELA</u>		SDG/AR/COC/Work Order: <u>709146</u>	
Received By: <u>CLM</u>		Date Received at GEL: <u>2/14/25</u>	
Carrier (Circle Applicable) FedEx Express <u>(FedEx Ground)</u> UPS Field Services Courier Client Other:		IR Temp gun # <u>IR5-23</u> Daily Calibration Performed? <u>Y</u>	
Tracking Number	Temp (C)	Tracking Number	Temp (C)
<u>771984009143</u>	<u>13</u> ✓		
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? <input checked="" type="checkbox"/> Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No			
B) Did the client designate the samples to be received as radioactive? <input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.			
C) Did the RSO classify the samples as radioactive? <input checked="" type="checkbox"/> Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3			
D) Are there any sample hazards to document? <input checked="" type="checkbox"/> If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:			
E) Was a SDS received and reviewed by Lab Safety? <input checked="" type="checkbox"/> 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?	<input checked="" type="checkbox"/>	Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)	
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	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)?	<input checked="" type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celsius	
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Preserved per COC request or list Sample IDs and Containers Affected: <u>All Samples</u> If Preservation added, Lot #: _____	
6 Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)	<input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>	IDs and tests affected:	
8 Sample IDs on COC match IDs on bottles?	<input checked="" type="checkbox"/>	IDs and containers affected:	
9 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>		
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)	
Comments:			
PM (or PMA) review: Initials <u>AM</u> Date <u>2/17/25</u> <input type="checkbox"/> Continuation Form Required when selected			

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 20 February 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

**Radiochemistry
Technical Case Narrative
Technology Laboratory, Inc
SDG #: 709146**

Product: GFPC Gross A/B, Liquid

Analytical Method: EPA 900.0/SW846 9310

Analytical Procedure: GL-RAD-A-001 REV# 20

Analytical Batch: 2751801

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
709146001	P124-0205-MW12
709146002	P124-0205-MW12-Dup
1206009293	Method Blank (MB)
1206009294	708793002(NonSDG) Sample Duplicate (DUP)
1206009295	708793002(NonSDG) Matrix Spike (MS)
1206009296	708793002(NonSDG) Matrix Spike Duplicate (MSD)
1206009297	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced

1206009294 (Non SDG 708793002DUP) Aliquot volume was reduced due to the sample matrix.

Quality Control (QC) Information

Matrix Spike (MS) Recovery

Matrix Spike and Matrix Spike Duplicate, (See Below), do not meet the alpha recovery requirement due to the matrix of the sample. The samples are similar in results.

Sample	Analyte	Value
1206009295 (Non SDG 708793002MS)	Alpha	61.1* (75%-125%)
1206009296 (Non SDG 708793002MSD)	Alpha	65.9* (75%-125%)

Technical Information

Gross Alpha/Beta Preparation Information

High hygroscopic salt content in evaporated samples can cause the sample mass to fluctuate due to moisture absorption. To minimize this interference, the salts are converted to oxides by heating the sample under a flame until a dull red color is obtained. The conversion to oxides stabilizes the sample weight and ensures that proper alpha/beta efficiencies are assigned for each sample. Volatile radioisotopes of carbon, hydrogen, technetium, polonium and cesium may be lost during sample heating.

Miscellaneous Information

Additional Comments

The matrix spike and matrix spike duplicate, 1206009295 (Non SDG 708793002MS) and 1206009296 (Non SDG 708793002MSD), aliquots were reduced to conserve sample volume.

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.