

Customer ID: 05377Z Account ID: Z01034 Lab Control ID: 25H01241 Received: Feb 03, 2025 Reported: Mar 07, 2025 Purchase Order No. None Received

Rebecca Manzanares Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City, CO 80640

# ANALYTICAL REPORT

Report may only be copied in its entirety.
Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

File: 25H01241 R1.pdf

Reviewed and approved by:

Roxanne Sullivan

**Analytical Laboratories Director** 

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# ANALITIOALIN

Rebecca Manzanares Colorado Analytical Laboratories, Inc.

La	b Sam	ple ID	25H01241-001					
Customer Sample ID			250130025-0	<b>1</b> - Perry Pa	ark Water &	Sanitation - PWSID: CO	)118045 - 009	
				sampled or	า 01/30/25 (	@ 1007		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Radium-226	pCi/L	Т	0.9	0.4	0.1	SM 7500-Ra B	02/14/25 @ 0938	KT
Radium-228	pCi/L	Т	2.1	0.6	0.2	EPA pg.19	02/21/25 @ 1407	KR

Certification ID's: CO/EPA CO00008

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\*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Sample required filtering for radium-228 analysis.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received < = Less Than

#### HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

### **Batch QC Summary Form**

Analyte: Radium-226

Control Standard/LFB: ID: C73-008 pCi/mL: 10.55 (use 2 diluted)

Spike Solution: ID: C73-008 pCi/mL: 10.55 (use 2 mL)

Spike Recovery Calculation: Sample: 25H01218-02b

Calculation: (19.4) (1.000) - (0.1) (1.000) x 100 = 91%

Date:

02/13/2025

21 1

#### Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap			х

<sup>\*</sup> Required for batch size greater than 10 samples.

nno:
ons:

X	Batch QC Passes**
	Batch QC Fails
	Batch QC Passes, with exceptions**:
	Reruns Required:
	Narrative:

#### Batch Listing by Lab Control Number:

25H01218 25H01219 25H01231 25H01232 25H01240 25H01241 25H01250	Evaluator:	
	 02/20/2025	
	Date	

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<sup>\*\*</sup>All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

#### HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

# **Batch QC Summary Form**

Analyte:	Radium-228
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Control Standard/LFB: ID: C6-009 pCi/mL: 14.2 (use 5 diluted)

Spike Solution: ID: C6-009 pCi/mL: 14.2 (use 5 mL)

Spike Recovery Calculation: Sample: 25H01240-1b

Calculation: (67.5) (1.000) - (2.3) (1.000) x 100 = 91.8%

Date:

02/21/2025

#### Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap			х

<sup>\*</sup> Required for batch size greater than 10 samples.

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X	Batch QC Passes**
	Batch QC Fails
	Batch QC Passes, with exceptions**:
	Reruns Required:
	Narrative:

#### Batch Listing by Lab Control Number:

25H01232 25H01240 25H01241 25H01250	<u>Evaluator:</u>	
25H01251 25H01263 25H01264	 Roxame Sallwen -	
	03/06/2025 Date	

<sup>\*\*</sup>All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

25H 01241



HNO3 Lot #: 2024040929 Ship To: Hazen Research Date Preserved: 1/30/25 CO0118045 Perry Park Water & Sanitation Yes No 🗸 <sub>8</sub> Yes 🗸 Preserved: (Y/N Submit Data to CDPHE: Compliance Samples: Project Name 250130025 CAL TASK ARF Bill To Information: (If different from report to) Address: rebeccamanzanares@coloradolab.com Company Name Colorado Analytical Laboratory LABORATORIES, INC. Rebecca Manzanares Commerce City, CO 80640 303-659-2313 Report To Information 10411 Heinz Way Report To: Address: E-Mail: Phone:

		Container Type	4 - 1L - HNO3				1-
Tests Requested	Radium 228 (Sub) Radium 226 (Sub)				Radon Checked Date: Time:	Bubbles? NO adspace? NO .	Initial Date:
		Matrix	Water - Drinking				
		Sample ID	1/30/25 10:07 AM 250130025-01 - 009- SP ID: 009 / Fac ID: 009				
		Sample Date/Time	1/30/25 10:07 AM 2	Comment:			

Page 1 of 1 Received by: (Signature) Date: Time: Relinquished by: (Signature) Date: Time: Date: Time: Received by: (Signature) Relinquished by: Signature)

Initial pH check date: 02/3/25 Time: 1/4

2nd pH check date: Final pH 2

Preserved by: 14

pH Check and Preservation, Agid Lot #