SUMMA WATER SERVICES

Contract Water & Wastewater Operations ♦ Well & Water Testing Assistance

February 4, 2025

Silverado Ranch, Inc.
c/o Stan Searle, Owner/Developer
18911 Cherry Springs Ranch Drive
Monument, CO 80132

RE: Water Supply Standards – Finding of Sufficient Quality
EPC PCD File No. SF246, Silverado Ranch Filing No. 2

Dear Mr. Searle:

Summa Water Services has completed a water quality investigation for Silverado Ranch, per your request and in compliance with current requirements of the El Paso County (EPC) Land Development Code (LDC), Section 8.4.7.(10). This report summarizes the groundwater sampling and analysis in support of a finding of sufficient water quality for the proposed Silverado Ranch Filing No. 2 Subdivision. The quality of the water supply for the proposed subdivision must meet or exceed the drinking water contaminant limits established in the *Colorado Primary Drinking Water Regulations*. These regulations serve to assure the safety of public drinking water supplies by enforcing standards established by the federal Safe Drinking Water Act (i.e., Public Law 93-523), as amended. The following report will demonstrate that the proposed subdivision's water supply is safe to drink.

Site Location & Subdivision Water Source

Silverado Ranch is a 318-acre development located south of Drennan Road, west of Ellicott Highway, and east of Peyton Highway. Filing No. 1 was approved in October 2018 for 10 single-family residential lots (2.5-acre minimum size) and 3 larger open space parcels. The proposed Filing No. 2 will create 15 single-family lots.

The Silverado Ranch development utilizes the Laramie-Fox Hills aquifer as the primary water source for individual wells. This aquifer is the deepest in the Denver Basin and widely used for public water systems. The Laramie-Fox Hills is both a bedrock groundwater source and a confined aquifer. Therefore, the required chemical analysis from the contaminants list in the EPC LDC does not include the Volatile Organic and Synthetic Organic Chemical Contaminants.

Sample Location & Collection Techniques

For this water quality investigation, representative water samples were obtained from an existing well located at 20005 Silverado Hill View, which is within ½ mile of the proposed Filing No. 2. The existing well (Permit No. 80462-F) was drilled into the Laramie-Fox Hills aquifer at a depth of 352 feet, with perforated casing starting at 183 feet. The samples collected from this well are considered to be representative of the Laramie-Fox Hills source water.

Field work was carried out by Ellen Ellson, a Certified Water Professional and masters' level analytical chemist with over 25 years' experience operating public water systems, collecting and analyzing water quality samples, and testing and treating domestic wells. Neither Summa Water Services nor Ms. Ellson

are associated with Silverado Ranch except for this contracted project. Samples were collected on Monday, December 30, 2024, with lab supplied bottles, stored and transported to multiple Colorado certified laboratories within the standard holding times. A chain of custody is included with each laboratory's report (attached).

Chemical Analysis & Results

Water samples were collected and stored on ice for transporting to various laboratories, including EPC Public Health Laboratory, Colorado Analytical, SGS North America (Wheat Ridge location), and Hazen Research. All Inorganic Chemicals, Secondary Maximum Contaminants, Radionuclide, and Bacteriological analyses were performed, as required by the LDC Section 8.4.7.(10)(a). All laboratories utilized in this investigation are Colorado certified to perform the analyses requested on their Chain of Custody form.

Please note that corrosivity of water is not the measure of one specific parameter, but rather an attempt to assess the potential for water to be corrosive and possibly leach trace metals from the aquifer, well pump, piping, fixtures, and the internal components of appliances. Colorado Analytical conducted the additional analyses and calculated the water's Langelier Index, a common standard of evaluating the tendency of water to be corrosive (negative index) or to form scale (positive index). A Langelier Index of zero is considered "balanced" water and not likely to cause corrosion or scale formation. A Langelier Index of -0.5 to +0.5 is interpreted as "non-corrosive" and probably not requiring treatment. The water sample collected from Silverado Ranch has a Langelier Index of -0.52 units, so very mild corrosion might be expected over time. Exposure to leached heavy metals in drinking water can be minimized by flushing the tap with cold water prior to consumption, always using cold water for drinking or cooking, and/or adding an in-home water treatment device such as an NSF Standard 53 certified water filter to remove heavy metals like lead, copper, cadmium and mercury.

Analytical results from all laboratories are tabulated on the following page and the all laboratory reports are attached. Where a laboratory report indicates an analyte was not detected at the reporting limit (i.e., Colorado Analytical's "ND"), the result is reported as "less than the reporting limit or minimum level" (e.g., "<0.05"). In all cases, the reporting limit is below the MCL and/or SMCL. Where there is no applicable MCL or SMCL, a "--" is listed.

Contaminant Levels Meet Drinking Water Requirements

Per the LDC, the maximum permissible contaminant levels in the source water supply shall meet the requirements of the *Colorado Primary Drinking Water Regulations*, as clarified by the EPC Public Health. As shown in the tabulated results, the water samples collected for Silverado Ranch meet or exceed the *Colorado Primary Drinking Water Regulations'* Maximum Contaminant Limits (MCLs) for all Inorganic Chemicals, Radionuclides, and Bacteriological Contaminants.

Among the Secondary Maximum Contaminants, there are two analytes (Iron and Manganese) that appear to be present at "objectionable" levels simply because they do not meet the respective Secondary Maximum Contaminant Levels (SMCLs). According to the *Colorado Primary Drinking Water Regulations*, Secondary Maximum Contaminants mainly affect the aesthetic qualities of drinking water and might have health implications at significantly higher concentrations. Both Iron and Manganese are essential nutrients. Iron levels above the SMCL can cause rusty colored water, sedimentation, metallic taste, and reddish or orange staining. Manganese levels exceeding the SMCL of 0.05 mg/L can cause drinking water to taste better, in addition to dark colored staining of plumbing and laundry. Adverse health effects can be observed for both underexposure and overexposure for Manganese. However, the World Health Organization recommends water manganese levels less than 0.4 mg/L to avoid potential health

Silverado Ranch - Water Quality Results - 12/30/24 Samples

Inorganic Chemical Contaminant Levels

Analyte	*Results*	*MCL*	*Units*	*Laboratory*
Anitmony	<0.0012	0.006	mg/L	Colorado Analytical
Arsenic	<0.0006	0.01	mg/L	Colorado Analytical
Barium	0.0492	2.0	mg/L	Colorado Analytical
Beryllium	<0.0001	0.004	mg/L	Colorado Analytical
Cadmium	<0.0001	0.005	mg/L	Colorado Analytical
Chromium	<0.0015	0.1	mg/L	Colorado Analytical
Cyanide (Total*)	0.0056	0.02	mg/L	SGS North America
Fluoride	0.45	4.0	mg/L	Colorado Analytical
Mercury	<0.0001	0.002	mg/L	Colorado Analytical
Nitrate (as Nitrogen)	<0.05	10	mg/L	Colorado Analytical
Nitrite (as Nitrogen)	<0.03	1.0	mg/L	Colorado Analytical
Total Nitrate and Nitrite (as Nitrogen)	<0.03	10.0	mg/L	Colorado Analytical
Selenium	<0.008	0.1	mg/L	Colorado Analytical
Thallium	<0.0002	0.0	mg/L	Colorado Analytical

*If total cyanide is 0.2 mg/L or greater, then further analysis for free cyanide is required.

Secondary Maximum Contaminant Levels

Analyte	*Results*	*SMCL*	*Units*	*Laboratory*
Aluminum	0.002	0.05 to 0.2	mg/L	Colorado Analytical
Chloride	2.4	250	mg/L	Colorado Analytical
Corrosivity (Langelier Index)	-0.52	--	units	Colorado Analytical
Iron	0.367	0.3	mg/L	Colorado Analytical
Manganese	0.0764	0.05	mg/L	Colorado Analytical
pH	7.18	6.5-8.5		Colorado Analytical
Silver	<0.0005	0.1	mg/L	Colorado Analytical
Sulfate	56.9	250	mg/L	Colorado Analytical
Total dissolved solids (TDS)	269	500	mg/L	Colorado Analytical
Zinc	0.012	5.0	mg/L	Colorado Analytical

Radionuclides Contaminant Levels

Analyte	*Results*	*MCL*	*Units*	*Laboratory*
Gross Alph	<2.1	15	pCi/L	Hazen Research
Gross Beta	2.7	--	pCi/L	Hazen Research
Combined Radium-226+228	1.0 ±0.6	5	pCi/L	Hazen Research

Bacteriological Contaminant Presence/Absense

Analyte	*Results*	*Laboratory*
Total Coliform (Qualitative)	Absent	EPC Public Health

Abbreviations:

MCL = Maximum Contaminant Level
SMCL = Secondary Maximum Contaminant Level
mg/L = milligrams per liter
pCi/L = picocuries per liter

complications. Manganese levels at Silverado Ranch's water source are substantially below this figure. SMCLs are not enforceable for public water systems, but rather they are used primarily for guidance in determining realistic goals for drinking water quality. Despite the two SMCL exceedances**,** the Laramie-Fox Hills water supply at Silverado Ranch appears to meet the standards specified in the *Colorado Primary Drinking Water Regulations* and no treatment facilities are necessary.

Future Water Quality & Analysis Expiration

Under foreseeable and likely future conditions, the quality of the proposed water supply should continue to meet or exceed the water quality standards as set forth in the *Colorado Primary Drinking Water* Regulations. Unless otherwise conditioned by EPC Public Health, further analysis of the water quality should not be necessary, since the Laramie-Fox Hills water source is a confined aquifer.

Compliance Not to Diminish Other State and Federal Standards

Nothing in this report is intended to modify, displace, supersede or diminish compliance with other Colorado and/or federal water quality requirements.

In summary, the water quality investigation completed for Silverado Ranch Filing No. 2 demonstrates that the designated water source, the Laramie-Fox Hills aquifer, meets the standards specified in the *Colorado Primary Drinking Water Regulations*, per the EPC Public Health and LDC Section 8.4.7.(10). The water supply is safe for consumption and no treatment facilities are necessary. Please let me know if you have any questions or concerns with the sample results and/or narrative presented herein. I am always happy to assist with any additional testing, should you need it. Thank you for your business.

Very truly yours,

Ellen Ellson, Owner
Summa Water Services
9548 Waterbury Drive, Falcon, CO 80831
719.352.5257 mobile
ellson.ellen@gmail.com

enclosures

Colorado Analytical LABORATORIES, INC.

Analytical Results

TASK NO: 241230047

Report To: Ellen Ellson
Company: Summa Water Services
9548 Waterbury Dr
Falcon CO 80831

Bill To: Ellen Ellson
Company: Ellen Ellson
9548 Waterbury Drive
Falcon CO 80831

Task No.: 241230047
Client PO:
Client Project: 20005 Silverado Hill Loop

Date Received: 12/30/24
Date Reported: 1/7/25
Matrix: Water - Drinking

Customer Sample ID 20005 Silverado Hill Loop
Sample Date/Time: 12/30/24 10:15 AM
Lab Number: 241230047-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Nitrate/ Nitrite Nitrogen	**ND mg/L**	Calculation	0.05 mg/L		1/2/25	-	AMJ
Chloride	**2.4 mg/L**	EPA 300.0	0.1 mg/L	250	12/31/24	QC78599	NRP
Fluoride	**0.45 mg/L**	EPA 300.0	0.10 mg/L	4	12/31/24	QC78603	NRP
Nitrate Nitrogen	**ND mg/L**	EPA 300.0	0.05 mg/L	10	12/31/24	QC78600	NRP
Nitrite Nitrogen	**ND mg/L**	EPA 300.0	0.03 mg/L	1	12/31/24	QC78601	NRP
Sulfate	**56.9 mg/L**	EPA 300.0	0.1 mg/L	250	12/31/24	QC78602	NRP

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

MCL = Maximum contaminant level per the EPA
ND = Not Detected at Reporting Limit.

Colorado Analytical LABORATORIES, INC.

Analytical Results

TASK NO: 241230047

Report To: Ellen Ellson
Company: Summa Water Services
9548 Waterbury Dr
Falcon CO 80831

Bill To: Ellen Ellson
Company: Ellen Ellson
9548 Waterbury Drive
Falcon CO 80831

Task No.: 241230047
Client PO:
Client Project: 20005 Silverado Hill Loop

Date Received: 12/30/24
Date Reported: 1/7/25
Matrix: Water - Drinking

Customer Sample ID 20005 Silverado Hill Loop
Sample Date/Time: 12/30/24 10:15 AM
Lab Number: 241230047-02

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Total							
Iron	**0.367 mg/L**	EPA 200.7	0.005 mg/L	0.3	1/2/25	QC78610	MBN
Total							
Aluminum	**0.002 mg/L**	EPA 200.8	0.001 mg/L	0.05	1/2/25	QC78585	MBN
Antimony	**ND mg/L**	EPA 200.8	0.0012 mg/L	0.006	1/2/25	QC78585	MBN
Arsenic	**ND mg/L**	EPA 200.8	0.0006 mg/L	0.01	1/2/25	QC78585	MBN
Barium	**0.0492 mg/L**	EPA 200.8	0.0007 mg/L	2	1/2/25	QC78585	MBN
Beryllium	**ND mg/L**	EPA 200.8	0.0001 mg/L	0.004	1/2/25	QC78585	MBN
Cadmium	**ND mg/L**	EPA 200.8	0.0001 mg/L	0.005	1/2/25	QC78585	MBN
Chromium	**ND mg/L**	EPA 200.8	0.0015 mg/L	0.1	1/2/25	QC78585	MBN
Manganese	**0.0764 mg/L**	EPA 200.8	0.0008 mg/L	0.05	1/2/25	QC78585	MBN
Mercury	**ND mg/L**	EPA 200.8	0.0001 mg/L	0.002	1/2/25	QC78585	MBN
Selenium	**ND mg/L**	EPA 200.8	0.0008 mg/L	0.05	1/2/25	QC78585	MBN
Silver	**ND mg/L**	EPA 200.8	0.0005 mg/L	0.1	1/2/25	QC78585	MBN
Thallium	**ND mg/L**	EPA 200.8	0.0002 mg/L	0.002	1/2/25	QC78585	MBN
Zinc	**0.012 mg/L**	EPA 200.8	0.001 mg/L	5	1/2/25	QC78585	MBN

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ND = Not Detected at Reporting Limit.

Colorado Analytical LABORATORIES, INC.

Analytical QC Summary

TASK NO: 241230047

Report To: Ellen Ellson
Company: Summa Water Services

Receive Date: 12/30/24
Project Name: 20005 Silverado Hill Loop

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Chloride	QC78599	Blank	ND	EPA 300.0	12/31/24
Fluoride	QC78603	Blank	ND	EPA 300.0	12/31/24
Aluminum	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Antimony	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Arsenic	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Barium	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Beryllium	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Cadmium	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Chromium	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Manganese	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Mercury	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Selenium	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Silver	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Thallium	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Zinc	QC78585	Method Blank	ND	EPA 200.8	12/30/24
Iron	QC78610	Method Blank	ND	EPA 200.7	1/2/25
Nitrate Nitrogen	QC78600	Blank	ND	EPA 300.0	12/31/24
Nitrite Nitrogen	QC78601	Blank	ND	EPA 300.0	12/31/24
Sulfate	QC78602	Blank	ND	EPA 300.0	12/31/24

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC78599	Duplicate -241230083-03	0 - 20	-	0.1	EPA 300.0
		LCS	90 - 110	104.7	-	
		MS -241230083-03	75 - 125	99.8	-	
Fluoride	QC78603	Duplicate -241230085-01	0 - 20	-	1.4	EPA 300.0
		LCS	90 - 110	99.4	-	
		MS -241230085-01	75 - 125	95.8	-	
Aluminum	QC78585	LCS	90 - 110	100.2	-	EPA 200.8
		MS -241230007-09	70 - 130	102.6	-	
		MSD -241230007-09	0 - 10	-	0.1	
Antimony	QC78585	LCS	90 - 110	102.0	-	EPA 200.8
		MS -241230007-09	70 - 130	104.7	-	
		MSD -241230007-09	0 - 10	-	0.5	
Arsenic	QC78585	LCS	90 - 110	101.0	-	EPA 200.8
		MS -241230007-09	70 - 130	113.3	-	
		MSD -241230007-09	0 - 10	-	5.6	
Barium	QC78585	LCS	90 - 110	97.7	-	EPA 200.8
		MS -241230007-09	70 - 130	96.7	-	
		MSD -241230007-09	0 - 10	-	0.1	
Beryllium	QC78585	LCS	90 - 110	102.3	-	EPA 200.8
		MS -241230007-09	70 - 130	100.3	-	

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Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
		MSD -241230007-09	0 - 10	-	3.0	
Cadmium	QC78585	LCS	90 - 110	99.5	-	EPA 200.8
		MS -241230007-09	70 - 130	99.9	-	
		MSD -241230007-09	0 - 10	-	1.3	
Chromium	QC78585	LCS	90 - 110	100.2	-	EPA 200.8
		MS -241230007-09	70 - 130	100.4	-	
		MSD -241230007-09	0 - 10	-	0.6	
Manganese	QC78585	LCS	90 - 110	101.5	-	EPA 200.8
		MS -241230007-09	70 - 130	103.7	-	
		MSD -241230007-09	0 - 10	-	1.9	
Mercury	QC78585	LCS	90 - 110	101.4	-	EPA 200.8
		MS -241230007-09	70 - 130	101.7	-	
		MSD -241230007-09	0 - 10	-	3.1	
Selenium	QC78585	LCS	90 - 110	102.7	-	EPA 200.8
		MS -241230007-09	70 - 130	104.6	-	
		MSD -241230007-09	0 - 10	-	5.2	
Silver	QC78585	LCS	90 - 110	95.4	-	EPA 200.8
		MS -241230007-09	70 - 130	84.6	-	
		MSD -241230007-09	0 - 10	-	8.2	
Thallium	QC78585	LCS	90 - 110	90.1	-	EPA 200.8
		MS -241230007-09	70 - 130	98.4	-	
		MSD -241230007-09	0 - 10	-	4.0	
Zinc	QC78585	LCS	90 - 110	97.8	-	EPA 200.8
		MS -241230007-09	70 - 130	87.7	-	
		MSD -241230007-09	0 - 10	-	4.2	
Iron	QC78610	Duplicate -241230011-10	0 - 20	-	1.4	EPA 200.7
		LCS	90 - 110	104.3	-	
		MS -241230020-01A	75 - 125	108.3	-	
Nitrate Nitrogen	QC78600	Duplicate -241230083-03	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	102.3	-	
		MS -241230083-03	75 - 125	96.4	-	
Nitrite Nitrogen	QC78601	Duplicate -241230083-03	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	99.7	-	
		MS -241230083-03	75 - 125	98.2	-	
Sulfate	QC78602	Duplicate -241230083-03	0 - 20	-	0.3	EPA 300.0
		LCS	90 - 110	102.3	-	
		MS -241230083-03	75 - 125	105.3	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

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Drinking Water Chain of Custody

Colorado Analytical LABORATORIES, INC.

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
610 Garrison Street, Unit E
Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

Report To Information	**Bill To Information** (If different from report to)	**Project Information**
Company Name: Summa Water Services	Company Name: (same)	PWSID: n/a
Contact Name: Ellen Ellson	Contact Name:	System Name:
Address: 9548 Waterbury Dr.	Address:	Compliance Samples: Yes ☐ No ☒
City: Falcon State: CO Zip: 80831	City: State: Zip:	Send Results to CDPHE: Yes ☐ No ☒
Phone: 719-352-5257	Phone:	Task Number (Lab Use Only) CAL Task 241230047
Email: ellson.ellen@gmail.com	Email:	CJF
Sample Collector: ellen		
Sample Collector Phone:	PO Number:	

Bottle labels say "Silverado Ranch. Logged per COC. CF 12/30/24

Date	Time	Client Sample ID / Sample Pt ID	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index (Circle)	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Nitrate/Nitrite	Gross Alpha/Beta	Radium 226/228	Iron	Manganese	Chlorite
12/30/24	10:15 am	20005 Silverado Hill Loop	8 ★	6.0														X	X	X	X									
		★ 5-1L bottles provided and not needed. and 1-250 mL unpreserved. CF 12/30/24	(8)																											

Instructions: Bill to Ellen's Mastercard! See Attached (email w/Jaime)

C/S Info:

Delivered Via: HAND C/S Charge ☐

Seals Present Yes ☐ No ☒ Headspace Yes ☐ No ☐

Temp 2 °C /Ice Y Sample Pres. Yes ☒ No ☐

Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
E McEllen	12/30/24 1pm					AK	12/30/24 1302

RE: developer water testing

1 message

CJF

Jaime Adams <jaimeadams@coloradolab.com> Mon, Dec 23, 2024 at 10:42 AM
To: Ellen Ellson <ellson.ellen@gmail.com>

You would need:

5 – 1 liter unpresevered

1 – 500 ml. unpreserved

1 – 500 ml. Nitric preserved

1 – 500 ml. Green Cyanide

1-250 ml. unpreserved

1 Bac-T

From: Ellen Ellson <ellson.ellen@gmail.com>
Sent: Monday, December 23, 2024 10:35 AM
To: Jaime Adams <jaimeadams@coloradolab.com>
Subject: Re: developer water testing

Yes -- what do I need for the tests that you CAN run? Thanks. =e=

On Mon, Dec 23, 2024 at 10:36 AM Jaime Adams <jaimeadams@coloradolab.com> wrote:

Are you just needing to know what containers you need? We don't typically ship out containers to be sent to other labs, but I can tell you what containers you will need.

From: Ellen Ellson <ellson.ellen@gmail.com>
Sent: Monday, December 23, 2024 10:29 AM
To: Jaime Adams <jaimeadams@coloradolab.com>
Subject: Re: developer water testing

I have a bunch of bottles here -- I think I have everything I need, but you could give me a list to double-check? I don't necessarily need a quote, as he'll pay what he needs to pay ... all in the course of developing a subdivision, ya know? =e=

On Mon, Dec 23, 2024 at 10:29 AM Jaime Adams <jaimeadams@coloradolab.com> wrote:

Do you need me to have a project manager generate a quote for you? All the bottles will ship together so I cannot guarantee they will go out today.

From: Ellen Ellson <ellson.ellen@gmail.com>
Sent: Monday, December 23, 2024 10:22 AM
To: Jaime Adams <jaimeadams@coloradolab.com>
Subject: Re: developer water testing

Yes, I sorta figured that was the schedule. I figure I can do the bacT test locally, too, even if it requires a repeat trip to the site. The more important thing is whether or not you can do the Cyanide and Silver testing. I'd need a "green" bottle and ??? for those? Could that be shipped to me yet today, if you can do those tests? I see that SGS is drinking water certified for at least the Cyanide, so I'll contact them, too, if need be (although I'd rather work with you guys!). Thanks! =e=

On Mon, Dec 23, 2024 at 10:22 AM Jaime Adams <jaimeadams@coloradolab.com> wrote:

Hi Ellen – I can have a project manager put together a quote for you, but as far as sampling this week, we an only accept sub-contract samples on Thursday morning, or first thing the morning of12/30. We cannot accept bacteriological samples 12/24 or 12/31. Shipping might be iffy since we cannot take bacteriological samples tomorrow. I am checking on the Cyanide inquiry.

From: Ellen Ellson <ellson.ellen@gmail.com>
Sent: Monday, December 23, 2024 9:47 AM
To: Jaime Adams <jaimeadams@coloradolab.com>
Subject: developer water testing

CAL Task
241230047

CJF

Jaime, a developer in the C/S area contacted me last Friday. Apparently, El Paso County requires water testing during the development and approval process and they require a list of specific analyses, depending on the water source. Here's the list that also includes the apparent MCL next to each test:

Inorganic Chemicals and MCL (mg/L):

1. Antimony 0.006

2. Arsenic 0.01

3. Barium 2.0

4. Beryllium 0.004

5. Cadmium 0.005

6. Chromium 0.1

7. Cyanide (Total*) 0.2

***If total cyanide is 0.2mg/L, or greater then further analysis for free cyanide is required.**

8. Fluoride 4.o

9. Mercury. 0.002

10. Nitrate 10.0 (as Nitrogen)

11. Nitrite 1.0 (as Nitrogen)

12. Total Nitrate and Nitrite 10.0 (as Nitrogen)

13. Selenium 0.05

14. Thallium 0.002

Secondary Maximum Contaminants:

1. Aluminum 0.05 to 0.2 mg/L

2. Chloride 250 mg/l

3. Corrosivity Non-corrosive — Langler Index

4. Iron 0.3 mg/L

5. Manganese 0.05 mg/L

6. pH 6.5-8.5

7. Silver 0.1 mg/L

8. Sulfate 250 mg/L

9. Total dissolved solids (TDS) 500 mg/L

10. Zinc 5.0 mg/L

CAL Task
241230047

CJF

Radionuclides:

1. Gross Alpha/Beta-Water

2. Combined radium-226 and radium-2281 5pCi/L

Bacteriological:

1. Total Coliform Absence

Collection Techniques. Samples shall be collected by qualified personnel using standard collection and preservation methods and shall be analyzed within the limits of standard holding times. A chain of custody shall be maintained and documented from sampling to a laboratory analysis. Samples shall be analyzed by a Colorado certified testing laboratory.

Could you possibly send me a quote for the tests that you can do? I don't see you guys listed as being certified for Cyanide in drinking water. I'm also unsure about the Silver test. I will likely bring the radionuclide samples to Hazen Research myself, since time is of the essence. I do not have any "green" bottles on hand for the Cyanide testing, so that would need to be shipped to me ASAP and/or I could pick the bottle up when I'm there and then ship it back. I'd told the guy I thought I had all of the bottles and would sample and transport them to you today, but I didn't notice the "odd" tests that were listed -- I believe I have all the other "regular" test bottles on hand. In any case, this developer is in the late stages of planning approval and is anxious to get the results, as it wasn't something he'd known about until just recently. I'd love to be able to collect the samples yet this week, but getting a bottle sent to me quickly could be iffy -- I don't want to drive to the lab twice, either. ;-) I realize that the Radium test will have the longest wait for results, but he's hoping to get preliminary approval with all of the rest, so the sooner I can do this, the better. Please advise. Thanks!

-e-

Ellen Ellson

719.352.5257 mobile

asdfasdf

Colorado Analytical LABORATORIES, INC.

Analytical Results

TASK NO: 241230047

Report To: Ellen Ellson
Company: Summa Water Services
9548 Waterbury Dr
Falcon CO 80831

Bill To: Ellen Ellson
Company: Ellen Ellson
9548 Waterbury Drive
Falcon CO 80831

Task No.: 241230047
Client PO:
Client Project: 20005 Silverado Hill Loop

Date Received: 12/30/24
Date Reported: 1/7/25
Matrix: Water - Drinking

Customer Sample ID 20005 Silverado Hill Loop
Sample Date/Time: 12/30/24 10:15 AM
Lab Number: 241230047-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	**153.9 mg/L as CaCO3**	SM 2320-B	0.2 mg/L as CaCO3	12/31/24	-	KJP
Calcium as CaCO3	**89.9 mg/L**	EPA 200.7	0.1 mg/L	1/2/25	-	MBN
Carbonate	**ND mg/L as CaCO3**	SM 2320-B	0.2 mg/L as CaCO3	12/31/24	-	KJP
Hydroxide	**ND mg/L as CaCO3**	SM 2320-B	0.2 mg/L as CaCO3	12/31/24	-	KJP
Langelier Index	**-0.52 units**	SM 2330-B	units	1/2/25	-	DPL
pH	**7.18 units**	SM 4500-H-B	0.01 units	12/30/24	-	JJA
Temperature	**20 °C**	SM 4500-H-B	1 °C	12/30/24	-	JJA
Total Alkalinity	**153.9 mg/L as CaCO3**	SM 2320-B	4.0 mg/L as CaCO3	12/31/24	QC78581	KJP
Total Dissolved Solids	**269 mg/L**	SM 2540-C	5 mg/L	12/31/24	QC78563	ISG

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Colorado Analytical LABORATORIES, INC.

Analytical QC Summary

TASK NO: 241230047

Report To: Ellen Ellson
Company: Summa Water Services

Receive Date: 12/30/24
Project Name: 20005 Silverado Hill Loop

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Total Alkalinity	QC78581	Blank	ND	SM 2320-B	12/31/24
Total Dissolved Solids	QC78563	Blank	ND	SM 2540-C	12/30/24

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Total Alkalinity	QC78581	Duplicate -241226047-01	0 - 20	-	19.5	SM 2320-B
		LCS	90 - 110	99.4	-	
		LCS-2	90 - 110	106.5	-	
Total Dissolved Solids	QC78563	Duplicate -241227047-02	0 - 10	-	6.3	SM 2540-C
		LCS	85 - 115	105.2	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

Drinking Water Chain of Custody

Colorado Analytical LABORATORIES, INC.

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
610 Garrison Street, Unit E
Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

Report To Information	**Bill To Information** (If different from report to)	**Project Information**
Company Name: Summa Water Services	Company Name: (same)	PWSID: n/a
Contact Name: Ellen Ellson	Contact Name:	System Name:
Address: 9548 Waterbury Dr.	Address:	Compliance Samples: Yes ☐ No ☒
City: Falcon State: CO Zip: 80831	City: State: Zip:	Send Results to CDPHE: Yes ☐ No ☒
Phone: 719-352-5257	Phone:	Task Number (Lab Use Only): CAL Task 241230047 CJF
Email: ellson.ellen@gmail.com	Email:	
Sample Collector: ellen		
Sample Collector Phone:	PO Number:	

Bottle labels say "Silverado Ranch. Logged per COC. CF 12/30/24

Date	Time	Client Sample ID / Sample Pt ID	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	PHASE I, II, V Drinking Water Analyses (check requested analysis): Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index (Circle)	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Subcontract Analyses: Nitrate/Nitrate	Gross Alpha/Beta	Radium 226/228	Iron	Manganese	Chlorite
12/30/24	10:15 am	20005 Silverado Hill Loop	8*	0.0														X	X	X										
			(8)																											
		* 5-1L bottles provided and not needed. and																												
1-250 mL		unpreserved. CF 12/30/24																												

Instructions: Bill to Ellen's Mastercard! See Attached (email w/Jaime)

C/S Info:

Delivered Via: HAND C/S Charge ☐

Seals Present Yes ☐ No ☒ Headspace Yes ☐ No ☐

Temp 2 °C /Ice Y Sample Pres. Yes ☒ No ☐

Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
E McEllen	12/30/24 1pm					AB	12/30/24 1302

RE: developer water testing

1 message

CJF

Jaime Adams <jaimeadams@coloradolab.com> Mon, Dec 23, 2024 at 10:42 AM
To: Ellen Ellson <ellson.ellen@gmail.com>

You would need:

5 – 1 liter unpresevered

1 – 500 ml. unpreserved

1 – 500 ml. Nitric preserved

1 – 500 ml. Green Cyanide

1-250 ml. unpreserved

1 Bac-T

From: Ellen Ellson <ellson.ellen@gmail.com>
Sent: Monday, December 23, 2024 10:35 AM
To: Jaime Adams <jaimeadams@coloradolab.com>
Subject: Re: developer water testing

Yes -- what do I need for the tests that you CAN run? Thanks. =e=

On Mon, Dec 23, 2024 at 10:36 AM Jaime Adams <jaimeadams@coloradolab.com> wrote:

> Are you just needing to know what containers you need? We don't typically ship out containers to be sent to other labs, but I can tell you what containers you will need.
>
> **From:** Ellen Ellson <ellson.ellen@gmail.com>
> **Sent:** Monday, December 23, 2024 10:29 AM
> **To:** Jaime Adams <jaimeadams@coloradolab.com>
> **Subject:** Re: developer water testing
>
> I have a bunch of bottles here -- I think I have everything I need, but you could give me a list to double-check? I don't necessarily need a quote, as he'll pay what he needs to pay ... all in the course of developing a subdivision, ya know? =e=
>
> On Mon, Dec 23, 2024 at 10:29 AM Jaime Adams <jaimeadams@coloradolab.com> wrote:
>
> > Do you need me to have a project manager generate a quote for you? All the bottles will ship together so I cannot guarantee they will go out today.
> >
> > **From:** Ellen Ellson <ellson.ellen@gmail.com>
> > **Sent:** Monday, December 23, 2024 10:22 AM
> > **To:** Jaime Adams <jaimeadams@coloradolab.com>
> > **Subject:** Re: developer water testing

Yes, I sorta figured that was the schedule. I figure I can do the bacT test locally, too, even if it requires a repeat trip to the site. The more important thing is whether or not you can do the Cyanide and Silver testing. I'd need a "green" bottle and ??? for those? Could that be shipped to me yet today, if you can do those tests? I see that SGS is drinking water certified for at least the Cyanide, so I'll contact them, too, if need be (although I'd rather work with you guys!). Thanks! =e=

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241230047

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CAL Task
241230047

CJF

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-e-

Ellen Ellson

719.352.5257 mobile

asdfasdf

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Summa Water Services

Summa Water Services

Project: Silverado Ranch

SGS Job Number: DA69663

Sampling Date: 12/30/24

Report to:

Summa Water Services
9548 Waterbury Drive
Falcon, CO 80831
ellson.ellen@gmail.com

ATTN: Ellen Ellson

Total number of pages in report: 9

Eric Hoffman

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Client Service contact: Parna Payandeh 303-425-6021
Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

Sections: 1 2 3 4

Table of Contents

SGS North America Inc.

Sample Summary

Summa Water Services

Job No: DA69663

Summa Water Services
Project No: Project: Silverado Ranch

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
DA69663-1	12/30/24	10:20	E	12/30/24	AQ	Ground Water	20005 SILVERADO HILL LOOPS

Summary of Hits

Job Number: DA69663
Account: Summa Water Services
Project: Summa Water Services
Collected: 12/30/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA69663-1	**20005 SILVERADO HILL LOOPS**					
Cyanide, Total		0.0056	0.0050		mg/l	EPA 335.4/SW 9012B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	20005 SILVERADO HILL LOOPS		
Lab Sample ID:	DA69663-1	**Date Sampled:**	12/30/24
Matrix:	AQ - Ground Water	**Date Received:**	12/30/24
		Percent Solids:	n/a
Project:	Summa Water Services		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide, Total	0.0056	0.0050	mg/l	1	01/13/25 18:18	TH	EPA 335.4/SW 9012B

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

Page ___ of ___

Bottle Order Control #: | FED-EX Tracking #:
SGS Quote #: | SGS Job # DA69663

Client / Reporting Information

Company: Summa Water Services
Street: 9348 Waterbury Drive
City, State ZIP: Falcon, CO 80831
Project Contact: Ellen Ellson
Phone: 719-352-5257
Email: ellson.ellen@gmail.com
Sampler(s) Name(s): ellen

Project Information

Project Name: Silverado Ranch
Street:
City, State ZIP:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company: (same)
Street Address:
City, State ZIP
Attention:

Requested Analysis (see TEST CODE sheet)

Total Cyanide (if ≥ 0.2 mg/L, then further analysis for free cyanide is required)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank
D=dissolved metals
PD=Potentially dissolved
TR=Total recoverable

Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MeOH	ENCORE	Na2S2O3	NaHSO3	Total Cyanide	LAB USE ONLY
20005 Silverado Hill Logs	12-3-24	10:20 AM	ee	GW	1			1								X	

Turnaround Time (Business days)

- [X] Standard 10 Business Days
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY

Emergency & Rush T/A data available via Email or LabLink. RUSH TAT approval needed.

Special Reporting Instructions

- [ ] Report in PPB
- [ ] Report in PPM
- [ ] Report MDLs

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC Summary)
- [ ] COMMBN (Results/QC/Narrative)
- [ ] COMMBN+ [Results/QC/Narrative (+ chromatograms)]
- [ ] REDT2 (Results/QC Summary/partial raw data)
- [ ] FULT1
- [ ] EDD Format _____

Comments / Special Instructions

**Metals: specify metal(s), method, and type (D, PD, TR)

Sample Custody must be documented below each time samples change possession, including courier, Fed Ex, USP, USPS delivery.

Relinquished by Sampler/Affiliation:	Date/Time:	Received By/Affiliation:	Relinquished By/Affiliation:	Date/Time:	Received By/Affiliation:
Ellen Sampler	12-3-2024 1:50 PM	1	2		2
Relinquished by/Affiliation:	Date/Time:	Received By/Affiliation:	Relinquished By/Affiliation:	Date/Time:	Received By/Affiliation:
3		3	4		4

Custody Seal #: Intact [X] Not intact [ ] Absent [ ]
Preserved where applicable [X] Cooler Temp. °C (corrected): 3.4 Therm. ID: 37 On Ice [X]

http://www.sgs.com/en/terms-and-conditions

Current Regular COC 23MAY23.xls; FORM: EHSA-QAC-0027-01-FORM-Wheat Ridge - COC; RV 9/2/21

DA69663: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: da69663 **Client:** SUMMA WATER SERVICES **Project:** SIVERADO RANCH

Date / Time Received: 12/30/2024 1:45:00 PM **Delivery Method:** hd **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

Cooler Informatio	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑

	W	or	S	N/A
3. Type of TB Received	☐		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	☑		☐	
2. Samples presented properly	☑		☐	
3. Suffiient volume/containers recv'd for analysi	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample labe	☐		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☐
11. % Solids Jar Received?	☐		☐	☐
12. Residual Chlorine Present?	☐		☐	☐

Misc Information

Number of Encores: 25 Gram 5 Gram Number of Lab Filtered Metals

Test Strip Lot #s: pH 0-3: pH 10-12: Other: (Specify)

Residual Chlorine Test Strip Lot

Comments

SM001
Rev. Date 05/04/17

Technician: JEREMYD Date: 12/30/2024 5:27:54 PM Reviewer: Date:

Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 24H03643
Received: Dec 30, 2024
Reported: Jan 31, 2025
Purchase Order No.
None Received

Customer ID: 01893Z
Account ID: Z00000

Ellen Ellson
9548 Waterbury Drive
Falcon, CO 80831

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

Reviewed and approved by:

Roxanne Sullivan
Analytical Laboratories Director

Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 24H03643
Received: Dec 30, 2024
Reported: Jan 31, 2025
Purchase Order No.
None Received

Customer ID: 01893Z
Account ID: Z00000

ANALYTICAL REPORT

Ellen Ellson

Lab Sample ID			24H03643-001					
Customer Sample ID			**20005 Silverado Hill Loop** sampled on 12/30/24 @ 1010					
Parameter	**Units**	**Code**	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	**pCi/L**	**T**	<2.1	2.4	2.1	SM 7110 B	01/23/25 @ 0852	JR
Gross Beta	**pCi/L**	**T**	2.7	2.4	1.8	SM 7110 B	01/23/25 @ 0852	JR
Radium-226	**pCi/L**	**T**	0.4	0.2	0.1	SM 7500-Ra B	01/14/25 @ 1451	KT
Radium-228	**pCi/L**	**T**	0.6	0.6	0.2	EPA pg.19	01/23/25 @ 1543	KR

Certification ID's: CO/EPA CO00008

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

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

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY Date: 01/23/2025

Batch QC Summary Form

Analyte: Gross Alpha

Control Standard/LFB: ID: C11-006 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C11-006 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap

$$\text{Calculation: } \frac{(269.8)\ (0.200) - (0.5)\ (0.200)}{57.4} \times 100 = 93.8\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	x		
Spike Recovery	70 - 130 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap	x		

* Required for batch size greater than 10 samples.

Conclusions:

x Batch QC Passes**
_____ Batch QC Fails
_____ Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**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.

Batch Listing by Lab Control Number:

24H03606	24H03638
24H03609	24H03642
24H03610	24H03643
24H03611	25H01001
24H03613	25H01002
24H03614	25H01009
24H03620	
24H03622	
24H03624	
24H03637	

Evaluator: 

01/27/2025
Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY Date: 01/23/2025

Batch QC Summary Form

Analyte: Gross Beta

Control Standard/LFB: ID: C11-006 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C11-006 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: Tap

$$\text{Calculation: } \frac{(190.6)\ (0.200) - (0.95)\ (0.200)}{44} \times 100 = 86.2\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	x		
Spike Recovery	70 - 130 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap	x		

* Required for batch size greater than 10 samples.

Conclusions:

x Batch QC Passes**
_____ Batch QC Fails
_____ Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**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.

Batch Listing by Lab Control Number:

24H03606	24H03638
24H03609	24H03642
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24H03613	25H01002
24H03614	25H01009
24H03620	
24H03622	
24H03624	
24H03637	

Evaluator: 

01/27/2025
Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY Date: 01/22/2025

Batch QC Summary Form

Analyte: Radium-228

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: 24H03643-1b

$$\text{Calculation: } \frac{(69.9)\ (1.000) - (0.6)\ (1.000)}{71} \times 100 = 97.6\%$$

Batch QC Evaluation:

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

* Required for batch size greater than 10 samples.

Conclusions:

x Batch QC Passes**
_____ Batch QC Fails
_____ Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**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.

Batch Listing by Lab Control Number:

25H01048	
25H01050	
24H03604	
24H03619	
24H03620	
24H03622	
24H03624	
24H03643	

Evaluator: 

01/31/2025
Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY Date: 01/14/2025

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: 24H03643-01a

$$\text{Calculation: } \frac{(19.3)\ (1.000) - (0.4)\ (1.000)}{21.1} \times 100 = 90\%$$

Batch QC Evaluation:

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

* Required for batch size greater than 10 samples.

Conclusions:

x Batch QC Passes**
_____ Batch QC Fails
_____ Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**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.

Batch Listing by Lab Control Number:

24H03642	
24H03643	
25H01014	
25H01025	
25H01026	
25H01057	
25H01032	

Evaluator: 

01/24/2025
Date

24H 03643

HAZEN

HAZEN RESEARCH, INC.
4601 INDIANA STREET
GOLDEN, CO 80403
Phone - (303) 279 4501 Fax - (303) 278 1528

CHAIN OF CUSTODY RECORD, P. 1

Customer Information		Billing Information (If different)	
Client Name:	Summa Water Services	Billing Name:	(same)
Contact:	Ellen Ellson	Billing Contact:	
Address:	9548 Waterbury Drive	Billing Address:	
	Falcon, CO 80831		
Phone:	719.352.5257	PO #:	
email:	ellson.ellen@gmail.com	e-mail:	

Sample Return (If not selected below, sample will be shipped back at client expense and added to the invoice. Not applicable to RadChem Waters)

Non-hazardous sample disposal ($3.00/sample) ☑ Sample returned to client (UPS cost + overhead fee) ☐

Sampler's Name(s) (Print): Ellen Ellson (Signature)

PWSID: n/a System Name: n/a Entry Point: Facility ID: n/a Send Results to CDPHE: Y ☐ N ☑

Sample Identification	Sample Date and Time	Grab	Composite	Samp Type(1)	No. of Containers	Cont. Type(2)	Preservative(3)	Gross Alpha	Gross Beta	Radium-226	Radium-228	Radon	Uranium	Thorium	Lead
								☐	☐	☐	☐	☐	☐	☐	☐
20005 Silverado Hill Loop	12-30-24 10:10AM	X		DW	2	P	U	☒	☒	☒	☒	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐

(1) DW=Drinking Water WW=Wastewater SW=Surface Water SO=Soil GW=Ground Water SL=Sludge HZ=Hazardous O=Other
(2) P=Plastic G=Glass O=Other
(3) N=Nitric Acid U=Unpreserved C=Cooled S=Sulfuric Acid B=Sodium Hydroxide T=Sodium Thiosulfate Z=Zinc Acetate O=Other

By submitting samples for analysis, client agrees that services shall be govered by Hazen's analyticla terms and conditions; Hazen's terms and conditions supersede other terms and conditions (see page 2).

Relinquished by	Date/ Time	Received by	Date/ Time
EMEllson	12-30-24 1332	[signature]	12/30/24 13:32
Relinquished by	Date/ Time /	Received by [signature]	Date/ Time 12/30 1340
Shipped by	Date/ Time /	Received for Lab by	Date/ Time /

Method of Shipment

Requested Turnaround Time: Standard ☐ Rush (Must be approved, additional charges apply) ☐

Client Preservation Information
Client Preserved Sample: Y ☐ N ☐
Preserved Date/Time: ____________ Initials: ____
Acid Lot #: ____________

Lab use only Rec'd Preserved: Y ☐ N ☐ Date/Time: 12/30/24 Initials: TAC
Acid Lot ID: A17 Preservation check: (≥16hrs) Date/Time: 12/31 1125 Initials: TAC
Radiation Screen:_____

STANDARD BACTERIOLOGICAL WATER TEST METHOD:SM-9223B

El Paso County Public Health Laboratory EPA ID# CO00025

1675 West Garden of the Gods Road, Suite 2044, Colorado Springs, CO 80907 - (719) 578-3120

PWSID

☐ Raw
☐ Finished
☐ LT2
☐ Quantitative

Sample Point ID: RTOR

Sample Taken Date: 12/30/2024 Time: 1010

Address where sample was taken: 2000 Silverado Hill Loop Colorado Springs CO 80928

Sample site location: Hydrant Collector Name: Ellen Chlorine: mg/L

■ Well ☐ City ☐ Recreational

☐ Surface/Spring ☐ Cistern ☐ Wastewater

Results to: Ellen Ellson Phone: (719) 352-5257

Mailing address: 9548 Waterbury Drive

City/State/Zip: Falcon, CO 80831

Fax/Email: ellson.ellen@gmail.com

Comments:

Date 12/30/2024 Time 1115 Rc'd 728

Date 12/30/2024 Time 1302 Tested 728

Date 12/31/2024 Time 0722 Comp 744

Lab Sample # 21997

Colilert Results Per 100ml

■ Absence: Absence of coliform bacteria

☐ Presence: Presence of coliform bacteria & non-compliance with drinking water standards.

MPN/100 ml:

■ Absence: E. Coli: Escherichia coli bacteria

☐ Presence: E. Coli: Escherichia coli bacteria

MPN/100 ml: