

DOCKETED

Docket Number:	79-AFC-04C
Project Title:	Compliance - Application for Certification of DWR Bottlerock Geothermal Project
TN #:	270826
Document Title:	2025 Bottlerock CEC Annual Compliance Report Appendix 3
Description:	2025 Bottlerock CEC Annual Compliance Report Appendix 3
Filer:	John C Casteel
Organization:	Mayacma Geothermal LLC
Submitter Role:	Applicant
Submission Date:	6/18/2026 2:07:01 PM
Docketed Date:	6/18/2026



Appendix 3

Figure 1 - Vegetation Monitoring Map

Table 1 – Vegetation & Soil Boron Analytical Results

Vegetation & Soil Boron Analytical Reports

Figure 2 – Water Monitoring Map

Table 2 – Groundwater & Surface Water Analytical Results

Groundwater & Surface Water Analytical Reports

Bottle Rock Power, LLC - Vegetation Monitoring Locations

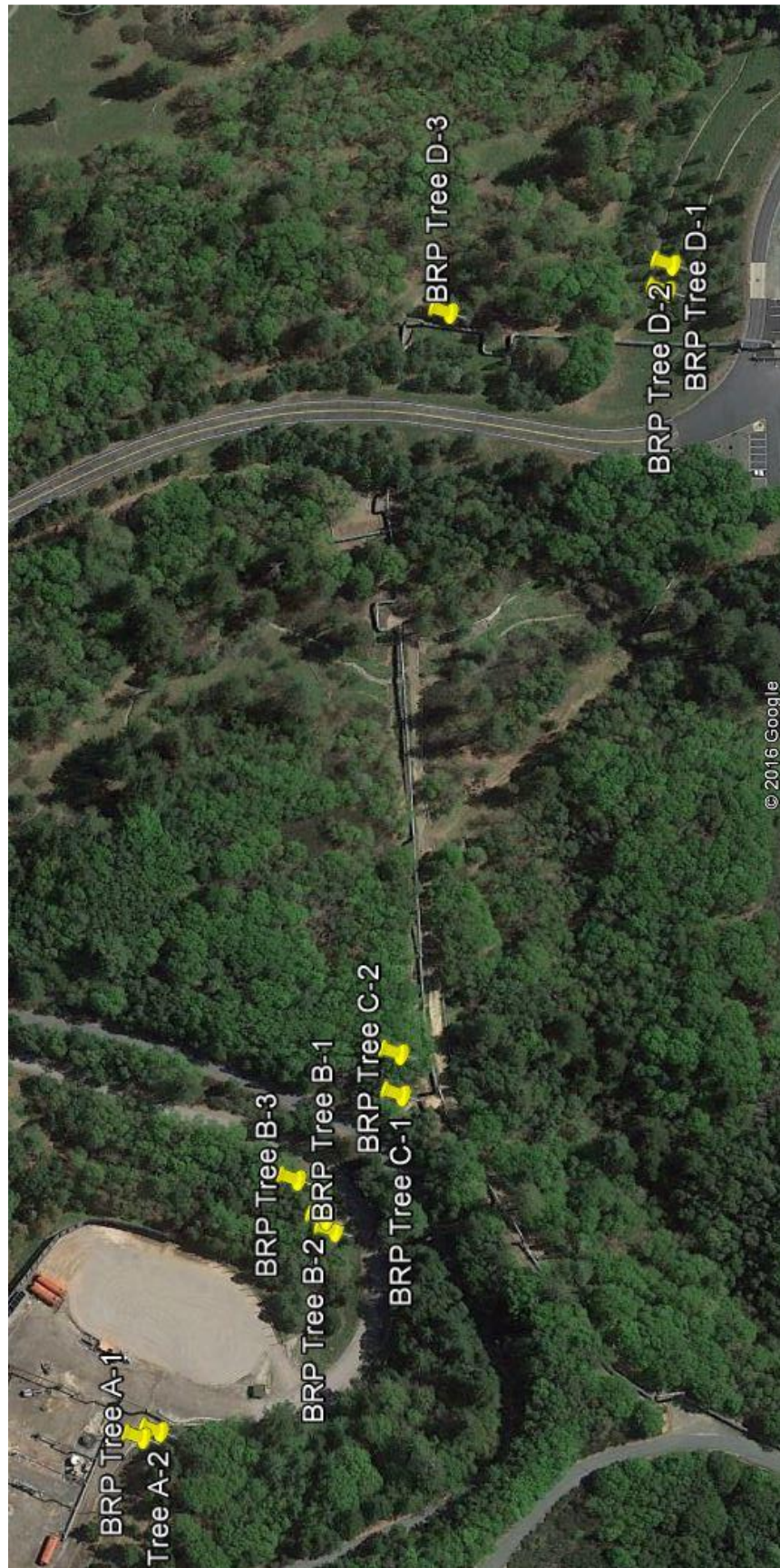


Table 1
Bottle Rock Power, LLC
2025 Vegetation Monitoring Data Needle & Soil Boron Analytical Results

Location ID	UTM Coordinates	Location Description	Sample Type	Boron (mg/kg)	Sample Type	Boron (mg/kg)
A-1	38.83734 -122.77257	Coleman Pad A3-a	Ponderosa Pine Needle	75.5	Base of Tree Soil	5.3
A-2	38.83729 -122.77255	Coleman Pad A3-b	Ponderosa Pine Needle	36.3	Base of Tree Soil	3.7
B-1	38.83675 -122.77177	West Coleman/Coleman Road BB1-a	Ponderosa Pine Needle	748.0	Base of Tree Soil	9.7
B-2	38.83678 -122.77173	West Coleman/Coleman Road (previously BB1-b) now B-2	Ponderosa Pine Needle	650.0	Base of Tree Soil	6.1
B-3	38.83687 -122.77157	West Coleman/Coleman Road previously BB1-c	Ponderosa Pine Needle	142.0	Base of Tree Soil	3.4
C-1	38.83655 -122.77121	Access Road C-1	Ponderosa Pine Needle	24.0	Base of Tree Soil	2.6
C-2	38.83655 -122.77105	Access Road C-2	Ponderosa Pine Needle	276.0	Base of Tree Soil	5.1
D-1	38.83574 -122.76807	North of Plant Fence Line D-1	Ponderosa Pine Needle	21.7	Base of Tree Soil	3.8
D-2	38.83572 -122.76796	North of Plant Fence Line D-2 (previously D-6)	Ponderosa Pine Needle	14.5	Base of Tree Soil	2.7
D-3	38.8364 -122.76813	North of Plant Fence Line DD-2 (previously DD-2a & b)	Ponderosa Pine Needle	31.8	Base of Tree Soil	3.2

ND - Not Detected

NA - Not Analyzed

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/16/25 16:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Address	Laboratory ID	Matrix	Date Sampled	Date Received
A-1 Needles		2512045-01	Soil	12/03/25 15:10	12/05/25 14:12
A-1 Soil		2512045-02	Soil	12/03/25 15:10	12/05/25 14:12
A-2 Needles		2512045-03	Soil	12/03/25 15:15	12/05/25 14:12
A-2 Soil		2512045-04	Soil	12/03/25 15:15	12/05/25 14:12
B-1 Needles		2512045-05	Soil	12/03/25 15:25	12/05/25 14:12
B-1 Soil		2512045-06	Soil	12/03/25 15:25	12/05/25 14:12
B-2 Needles		2512045-07	Soil	12/03/25 16:08	12/05/25 14:12
B-2 Soil		2512045-08	Soil	12/03/25 16:08	12/05/25 14:12
B-3 Needles		2512045-09	Soil	12/03/25 15:45	12/05/25 14:12
B-3 Soil		2512045-10	Soil	12/03/25 15:45	12/05/25 14:12
C-1 Needles		2512045-11	Soil	12/03/25 15:53	12/05/25 14:12
C-1 Soil		2512045-12	Soil	12/03/25 15:53	12/05/25 14:12
C-2 Needles		2512045-13	Soil	12/03/25 15:58	12/05/25 14:12
C-2 Soil		2512045-14	Soil	12/03/25 15:58	12/05/25 14:12
D-1 Needles		2512045-15	Soil	12/04/25 09:42	12/05/25 14:12
D-1 Soil		2512045-16	Soil	12/04/25 09:42	12/05/25 14:12
D-2 Needles		2512045-17	Soil	12/04/25 09:47	12/05/25 14:12
D-2 Soil		2512045-18	Soil	12/04/25 09:47	12/05/25 14:12
D-3 Needles		2512045-19	Soil	12/04/25 09:37	12/05/25 14:12
D-3 Soil		2512045-20	Soil	12/04/25 09:37	12/05/25 14:12



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

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A-1 Needles

2512045-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	47.8		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	75.5	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

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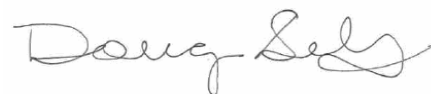
A-1 Soil

2512045-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	69.7		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	5.3	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



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Date Reported:
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A-2 Needles

2512045-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	44.5		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	36.3	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



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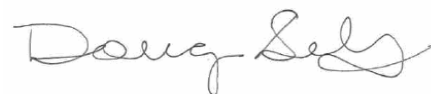
A-2 Soil

2512045-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	52.8		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	3.7	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

Mayacma Geothermal LLC 245 E Liberty St. STE 520 Reno, NV 89501	Project: Project Number: Project Manager:	Surface Water Surface Water Lucas Peters	Date Reported: 12/16/25 16:18
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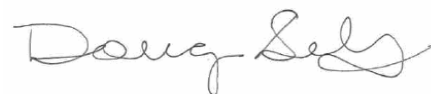
B-1 Needles

2512045-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	41.5		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	748	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



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B-1 Soil

2512045-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	41.7		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	9.7	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

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Reno, NV 89501

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Date Reported:
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B-2 Needles

2512045-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	46.3		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	650	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

Mayacma Geothermal LLC
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Reno, NV 89501

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Date Reported:
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B-2 Soil

2512045-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	79.9		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	6.1	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

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Reno, NV 89501

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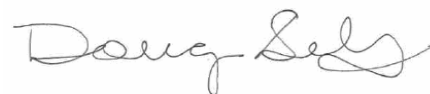
B-3 Needles

2512045-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	47.6		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	142	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

Mayacma Geothermal LLC 245 E Liberty St. STE 520 Reno, NV 89501	Project: Project Number: Project Manager:	Surface Water Surface Water Lucas Peters	Date Reported: 12/16/25 16:18
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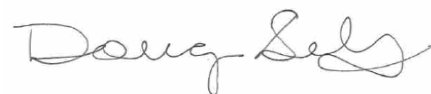
B-3 Soil

2512045-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	37.6		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	3.4	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



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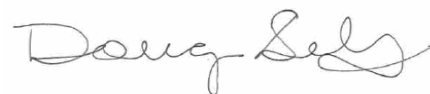
C-1 Needles

2512045-11 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	42.9		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	24.0	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



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Date Reported:
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C-1 Soil

2512045-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	81.7		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	2.6	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



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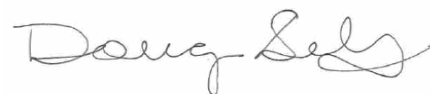
C-2 Needles

2512045-13 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	46.6		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	276	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



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Reno, NV 89501

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Date Reported:
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C-2 Soil

2512045-14 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	76.6		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	5.1	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



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Reno, NV 89501

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Date Reported:
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D-1 Needles

2512045-15 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	42.7		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	21.7	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

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Reno, NV 89501

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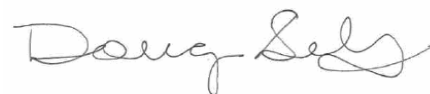
D-1 Soil

2512045-16 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	73.6		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	3.8	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

Mayacma Geothermal LLC 245 E Liberty St. STE 520 Reno, NV 89501	Project: Project Number: Project Manager:	Surface Water Surface Water Lucas Peters	Date Reported: 12/16/25 16:18
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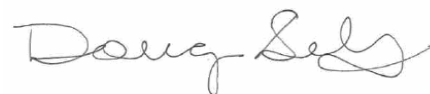
D-2 Needles

2512045-17 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	41.3		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	14.5	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

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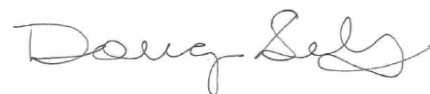
D-2 Soil

2512045-18 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	85.5		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	2.7	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



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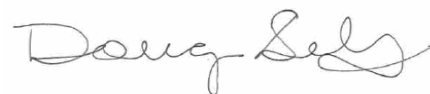
D-3 Needles

2512045-19 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	36.0		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	31.8	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

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Reno, NV 89501

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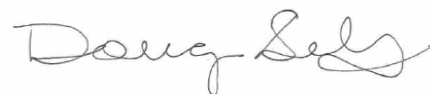
D-3 Soil

2512045-20 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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ASTM D3174-12

% Solids	58.3		%	AIL0104	12/10/25	12/10/25	-	
Total Recoverable Metals								
Boron	3.2	0.5	mg/kg	AIL0124	12/11/25	12/12/25	EPA 6010B	



Doug Selby, Technical Director

Mayacma Geothermal LLC
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Date Reported:
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ASTM D3174-12 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0104 - -

Duplicate (AIL0104-DUP1)

Source: 2512045-02

Prepared & Analyzed: 12/10/25

% Solids	70.8	%	69.7	1.53	200
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Doug Selby, Technical Director

Mayacma Geothermal LLC 245 E Liberty St. STE 520 Reno, NV 89501	Project: Project Number: Project Manager:	Surface Water Surface Water Lucas Peters	Date Reported: 12/16/25 16:18
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ASTM D3174-12 - Quality Control

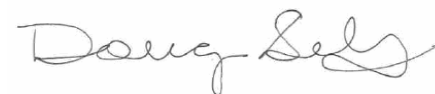
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0124 - EPA 6010B

Blank (AIL0124-BLK1)				Prepared: 12/11/25 Analyzed: 12/12/25						
Boron	ND	0.5	mg/kg							
LCS (AIL0124-BS1)				Prepared: 12/11/25 Analyzed: 12/12/25						
Boron	87.2	0.5	mg/kg	92.6		94.2	80-120			
LCS Dup (AIL0124-BSD1)				Prepared: 12/11/25 Analyzed: 12/12/25						
Boron	88.1	0.5	mg/kg	94.3		93.4	80-120	1.01	25	
Matrix Spike (AIL0124-MS1)		Source: 2512045-01		Prepared: 12/11/25 Analyzed: 12/12/25						
Boron	128	0.5	mg/kg	100	75.5	52.0	75-125			QM-05
Matrix Spike Dup (AIL0124-MSD1)		Source: 2512045-01		Prepared: 12/11/25 Analyzed: 12/12/25						
Boron	133	0.5	mg/kg	98.0	75.5	58.9	75-125	4.39	25	QM-05



Doug Selby, Technical Director

Mayacma Geothermal LLC 245 E Liberty St. STE 520 Reno, NV 89501	Project: Surface Water Project Number: Surface Water Project Manager: Lucas Peters	Date Reported: 12/16/25 16:18
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Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

ND Analyte not detected at reporting limit.

NR Analyte not detected at reporting limit.

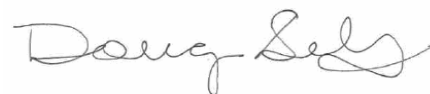
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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START SURVEY



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/16/25 16:18

SGS		1135 West Sunset Blvd., STE A, Rocklin, CA 95765 Phone (916) 543-4445		CHAIN-OF-CUSTODY-RECORD			
www.sgs.com				Page 1 of 3			
Report Results To:		Project Number: Surface Water		Invoice Attention: Accounts Payable PO# Quote #			
Company: Mayacma Geothermal LLC		Send Invoice To:		Company: Mayacma Geothermal LLC			
Mailing Address: 245 E Liberty St STE 520		Mailing Address: 245 E Liberty St STE 520		Applicable Program			
City, State, Zip: Reno, NV 89501		City, State, Zip: Reno, NV 89501		SDWA ☐ CWA ☐ RCRA ☐ Mining ☐ Other ☐			
Phone: 585-752-6821		Email / Fax: Accounting@openmountainenergy.com		QC Level Report ① II III IV NOTE: Surcharges apply to Level II, III and IV reports			
Sampled by: <i>Lucas Peters</i> Signature: <i>Lucas Peters</i>		ANALYSES REQUESTED		Send Results Via: Mail: ☐ Email: ☒			
I attest to the validity and authenticity of the sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time is considered fraud and may be grounds for legal action.		For all samples: Quote 2025 4829 Boron (B) SW946 60108 Metals Digestion (METHOD) Percent Solids (%SOL) SM 2544G Disposal fee, per sample ID (DISPO) NA		Send Invoice Via: Mail: ☐ Email: ☒			
Standard: ☒ Standard TAT 10 Business Days. Note that some tests vary. Rush Same Day: ☐ 3 Day: ☐ Other (specify): _____ 1 Day: ☐ 4 Day: ☐ Rush results will be issued after 4:00 p.m. 2 Day: ☐ 5 Day: ☐ NOTE: A Rush Surcharge is applied for rush samples		Other Pertinent Information / Special Instructions Please provide Excel and PDF versions of the report.		Field Measurements On-Site pH: Chlorine: Temperature: Other:			
Date Sampled	Time Sampled	Sample Identification	Lab No.	Comp. Grab	Matrix	Preservative**	
12/3/25	15:10	A-1 Needles					
	✓	A-1 Soil					
	15:15	A-2 Needles					
	✓	A-2 Soil					
	15:25	B-1 Needles					
	✓	B-1 Soil					
	16:04	B-2 Needles					
	✓	B-2 Soil					
Relinquished By: <i>Lucas Peters</i> Signature: <i>Lucas Peters</i>		Print Name: <i>Lucas Peters</i>		Company: <i>Mayacma</i>		Date: <i>12/5/25</i>	Time: <i>14:01</i>
Received By: <i>Aradhana Singh</i>		Print Name: <i>Aradhana Singh</i>		Company: <i>SGS</i>		Date: <i>12/05/25</i>	Time: <i>2:12 pm</i>
Relinquished By:		Print Name:		Company:		Date:	Time:
Received By:		Print Name:		Company:		Date:	Time:
Relinquished By:		Print Name:		Company:		Date:	Time:
Received By:		Print Name:		Company:		Date:	Time:
Authorized By:		Print Name:		Company:		Date:	Time:
Authorization is required to process samples. This obligates your organization for service fees. SGS Standard T & C's or other written agreement applies. If collections or legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees.				Samples are discarded 30 days after results are reported unless other arrangements are made and storage fees may apply. The analytical results associated with this COC apply only to these samples as they are received by the laboratory. The liability of the laboratory is limited to the amount paid for the report.			
Matrix: DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other Preservative** 1=H ₂ SO ₄ , 2=HNO ₃ , 3=HCl, 4=NaOH, 5=Na ₂ S ₂ O ₃ , 6=None, 7=Other				Container*** P-Plastic, G-Glass, V-Vial, OT-Other			

Doug Selby

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

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Project Manager: Lucas Peters

Date Reported:
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		1135 West Sunset Blvd., STE A, Rocklin, CA 95765 Phone (916) 543-4445		CHAIN-OF-CUSTODY-RECORD	
WWW.SGS.COM				Page 2 of 3	
Report Results To:	Report Attention: Lucas Peters	Project Number: Surface Water	Invoice Attention: Accounts Payable	PO#	Quote #
	Company: Mayacma Geothermal LLC		Company: Mayacma Geothermal LLC		
	Mailing Address: 245 E Liberty St STE 520		Mailing Address: 245 E Liberty St STE 520		
	City, State, Zip: Reno, NV 89501		City, State, Zip: Reno, NV 89501		
	Phone: 585-752-6821	Email / Fax: Lucas@Openmountainenergy.com	Phone:	Email / Fax: Accounting@openmountainenergy.com	
Sampled by: <u>Lucas Peters</u> Signature: <u>[Signature]</u>			ANALYSES REQUESTED		
I attest to the validity and authenticity of the sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time is considered fraud and may be grounds for legal action.			For all samples: Quote 2025 4829 Boron (B) SW846 60108 Metals Digestion (METDIG) Percent Solids (%SOL) SM 2540G Disposal fee, per sample ID (DISPG) NA		
Standard: ☒ Standard TAT 10 Business Days. Note that some tests vary. Rush Same Day: ☐ 3 Day: ☐ Other (specify): 1 Day: ☐ 4 Day: ☐ 2 Day: ☐ 5 Day: ☐ Rush results will be issued after 4:00 p.m. NOTE: A Rush Surcharge is applied for rush samples			Other Pertinent Information / Special Instructions Please provide Excel and PDF versions of the report.		
Date Sampled	Time Sampled	Sample Identification	Lab No.	Comp. Grab	Matrix
12/15	15:45	B-3 Needles			
12/15	✓	B-3 Soil			
	15:33	C-1 Needles			
	15:53	C-1 Soil			
	15:54	C-2 Needles			
	✓	C-2 Soil			
12/15	15:42	D-1 Needles			
✓	✓	D-1 Soil			
Signature		Print Name		Company	Date
Relinquished By: <u>Lucas Peters</u>		<u>Aradhana Singh</u>		<u>Mayacma</u>	12/15/25
Received By: <u>[Signature]</u>				<u>SGS</u>	2:01 pm
Relinquished By:					12/15/25
Received By:					2:13 pm
Relinquished By:					
Received By:					
Authorized By:					
Authorization is required to process samples. This obligates your organization for service fees. SGS Standard T & C's or other written agreement applies. If collections or legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees.			Samples are discarded 30 days after results are reported unless other arrangements are made and storage fees may apply. The analytical results associated with this COC apply only to these samples as they are received by the laboratory. The liability of the laboratory is limited to the amount paid for the report.		
Matrix* DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other Preservative** 1=H ₂ SO ₄ , 2=HNO ₃ , 3=HCl, 4=NaOH, 5=Na ₂ S ₂ O ₃ , 6=None, 7=Other					

Doug Selby

Doug Selby, Technical Director

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/16/25 16:18

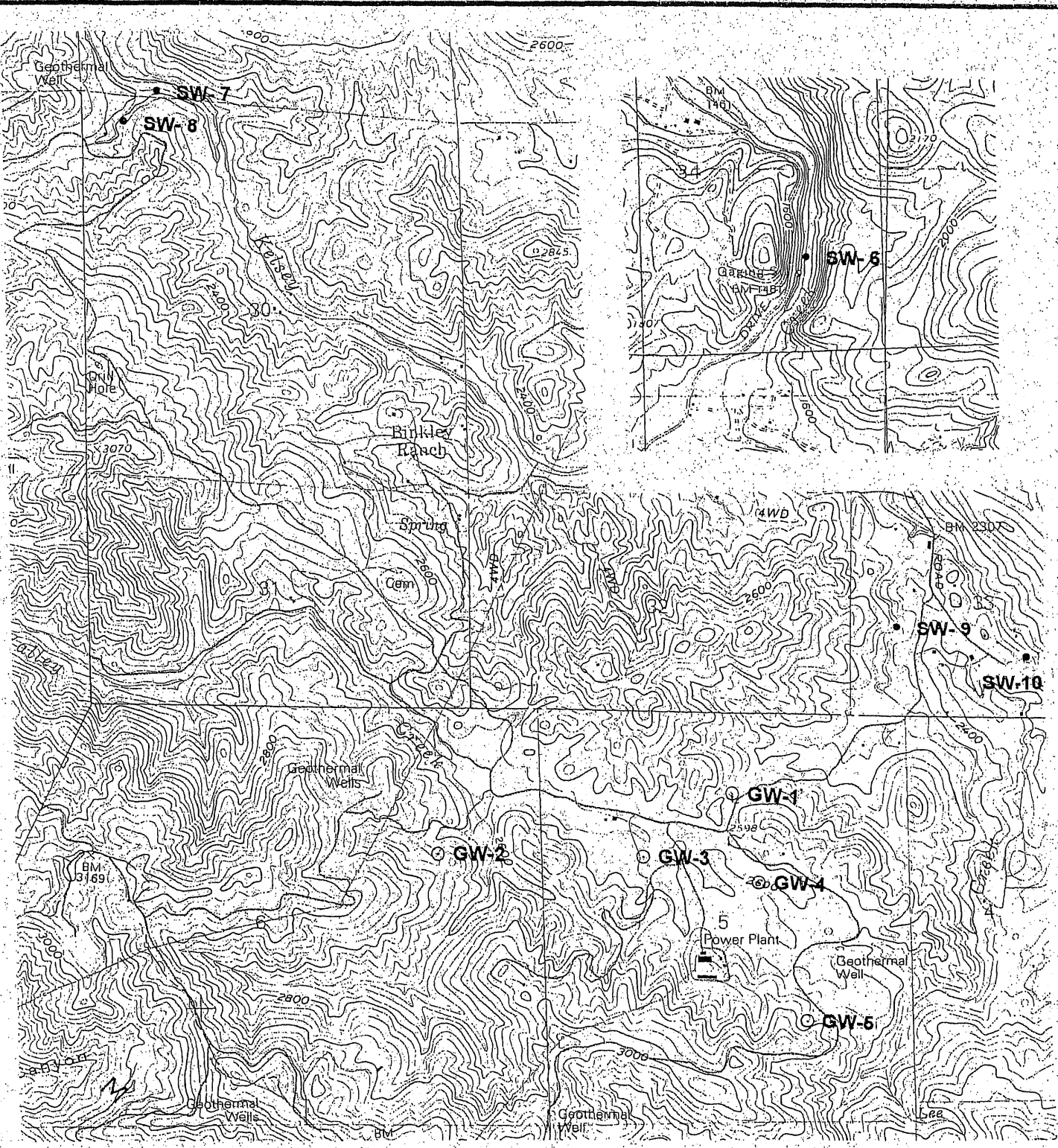
		1135 West Sunbelt Blvd., STE A, Rocklin, CA 95765 Phone (916) 543-4445		CHAIN-OF-CUSTODY-RECORD																																																																														
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Robert

Doug Selby, Technical Director



EGS
INC

**Bottle Rock Monitoring Program
Water Quality Sample
Locations**

Scale: 1inch = 2000 feet

Project No: 0068-026-02

Date: June 2003

FIG.1.1

Table 2
Bottle Rock Power, LLC
2025 Ground Water and Surface Water Monitoring
1st Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	Arsenic µg/l	Calcium mg/l	Magnesium mg/l	Hardness mg/l	Boron mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Sodium mg/l	Zinc mg/l	pH	Electrical Conductivity umhos/cm	Dissolved Oxygen mg/l	Turbidity NTU	Total Alkalinity mg/l	Nitrate mg/l	Sulfate mg/l	Total Suspended Solids mg/l	Total Coliform MPN
GW-1	38 50' 27.84" N 122 45' 59.07" W	Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	45	14	172	ND	ND	ND	ND	0.11	8.3	ND	7.94	390	NA	ND	190	ND	17	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	32	9.4	119	0.39	ND	0.7	ND	9.4	24	ND	8.03	360	NA	3.5	180	ND	5.3	2.3	NA
SW-6	38 55' 33.58" N 122 50' 39.91" W	Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey	ND	12	19	107	ND	ND	0.51	ND	19	ND	ND	8.35	220	11	2.8	120	NA	3.4	2.3	1100
SW-7	38 52' 04.62" N 122 47' 43.13" W	High Valley Creek; behind Binkley Ranch House	ND	13	11	79	ND	ND	ND	ND	ND	ND	ND	7.97	180	11	0.56	85	NA	5.9	ND	170
SW-8	38 52' 08.29" N 122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	6.1	4.7	35	ND	ND	0.11	ND	ND	ND	ND	7.93	88	11	2.8	44	NA	1.3	1.6	820
SW-9	38 50' 40.18" N 122 45' 29.61" W	Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	6.2	3.3	29	ND	ND	ND	ND	ND	ND	ND	7.81	81	11	0.79	39	NA	1.9	ND	280
SW-10	38 50' 36.22" N 122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	5.8	5.8	38	ND	ND	0.13	ND	ND	ND	ND	7.44	97	11	3.6	40	NA	0.91	3.5	820

ND = Not Detected
NA = Not Analyzed

Table 2
Bottle Rock Power, LLC
2025 Ground Water and Surface Water Monitoring
2nd Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	Arsenic μg/l	Calcium mg/l	Magnesium mg/l	Hardness mg/l	Boron mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Sodium mg/l	Zinc mg/l	pH	Electrical Conductivity umhos/cm	Dissolved Oxygen mg/l	Turbidity NTU	Total Alkalinity mg/l	Nitrate mg/l	Sulfate mg/l	Total Suspended Solids mg/l	Total Coliform MPN
GW-1	38 50' 27.84" N 122 45' 59.07" W	Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	46600	14700	176	99	ND	56.3	ND	113	8970	ND	8.35	387	NA	0.2	174	ND	18.2	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	33900	9930	126	421	4.8	1130	ND	50.9	25000	13.3	8.37	358	NA	4.1	162	ND	5.2	2	NA
SW-6	38 55' 33.58" N 122 50' 39.91" W	Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey Creek Drive	ND	13900	22600	128	83.3	0.3	57.4	ND	5.6	6190	ND	8.37	269	8.3	0.9	122	ND	2.8	1	present
SW-8	38 52' 08.29" N 122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley	ND	7340	5580	38	51.900	0.4	144	0.5	8.4	5310	1.6	7.93	105	8	2	48	0.09	1	3.1	present
SW-9	38 50' 40.18" N 122 45' 29.61" W	Alder Creek; Adjacent to High Valley Road bridge crossing Alder	ND	7060	3690	32	142	0.4	64.4	ND	5.5	4830	1.2	7.87	87.1	8.6	0.6	40	0.15	2	1.2	present
SW-10	38 50' 36.22" N 122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	7500	6480	44	20.5	0.3	176	0.5	10.1	5660.0	1.4	8.01	111	8.4	1.7	52	ND	0.6	3.1	present

ND = Not Detected

NA = Not Analyzed

Table 2
Bottle Rock Power, LLC
2025 Ground Water and Surface Water Monitoring
3rd Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	Arsenic μg/l	Calcium mg/l	Magnesium mg/l	Hardness mg/l	Boron mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Sodium mg/l	Zinc mg/l	pH	Electrical Conductivity umhos/cm	Dissolved Oxygen mg/l	Turbidity NTU	Total Alkalinity mg/l	Nitrate mg/l	Sulfate mg/l	Total Suspended Solids mg/l	Total Coliform MPN
GW-1	38 50' 27.84" N 122 45' 59.07" W	Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	47600	14800	182	99.30	ND	38.3	ND	111	8120	ND	8.06	380	NA	0.2	164	ND	20.7	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	32100	9900	124	420	3.6	4340	ND	60.1	23200	33	8.1	336	NA	2.9	154	ND	4.1	8	NA
SW-6	38 55' 33.58" N 122 50' 39.91" W	Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey Creek Drive	ND	12900	22300	122	74.7	ND	55.2	ND	8.5	6390	ND	8.18	257	9.2	0.4	126	0.6	1	1.5	2420
SW-8	38 52' 08.29" N 122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley	ND	7480	5110.0	38	31.1	5	109	ND	ND	5750	ND	7.94	101	9.8	1.1	48	ND	ND	1.5	1730
SW-9	38 50' 40.18" N 122 45' 29.61" W	Alder Creek; Adjacent to High Valley Road bridge crossing Alder	ND	55.8	2320	20	55.8	ND	44.1	ND	ND	4490	ND	7.53	62	9.6	0.4	28	ND	0.7	ND	1730
SW-10	38 50' 36.22" N 122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	8.5	6.2	47	ND	ND	0.12	ND	ND	6.2	ND	7.94	120	11	1.4	62	ND	ND	1.4	980

ND = Not Detected

NA = Not Analyzed

Table 2
Bottle Rock Power, LLC
2025 Ground Water and Surface Water Monitoring
4th Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	Arsenic μg/l	Calcium mg/l	Magnesium mg/l	Hardness mg/l	Boron mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Sodium mg/l	Zinc mg/l	pH	Electrical Conductivity umhos/cm	Dissolved Oxygen mg/l	Turbidity NTU	Total Alkalinity mg/l	Nitrate mg/l	Sulfate mg/l	Total Suspended Solids mg/l	Total Coliform MPN
GW-1	38 50' 27.84" N 122 45' 59.07" W	Barret Spring; Running seep at sharp turn, downslope on High Valley Road	0.8	51300	15200	188	100.00	ND	37.7	ND	110	8970	2.7	7.5	393	NA	0.3	32	0.15	21.4	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	1.5	37700	10200	132	430	5.1	994	1.4	54.2	26100	14.9	7.57	360	NA	3.4	8	ND	5.6	2.3	NA
SW-6	38 55' 33.58" N 122 50' 39.91" W	Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey Creek	1.2	13600	20400	118	77.3	0.2	40.8	ND	6.4	7020	1.5	7.87	250	9.8	0.3	8	0.13	3.7	0.5	326
SW-8	38 52' 08.29" N 122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	8500	6400	48	46.300	ND	94.30	ND	3.9	6100	30.8	7.53	120	10.1	0.9	2	0.12	1.6	0.6	387
SW-9	38 50' 40.18" N 122 45' 29.61" W	Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	8520	4200	34	110	0.4	56.2	0.5	5	5230	87.9	7.33	96.2	10.1	0.5	2	0.12	2.7	0.6	461
SW-10	38 50' 36.22" N 122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	0.5	8780	7290	50	29.9	1.3	118	ND	5.1	6600.0	1.3	7.56	125	10.2	1.0	2	0.12	2.1	0.7	687

ND = Not Detected

NA = Not Analyzed



alpha

Alpha Analytical Laboratories, Inc.

email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

11 March 2025

Mayacma Geothermal LLC

Attn: John Casteel

245 E Liberty St Suite 520

Reno, NV 89501

RE: Ground Water

Work Order: 25B5053

Enclosed are the results of analyses for samples received by the laboratory on 02/26/25 16:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Ground Water
Project Number: [none]

Reported:
03/11/25 15:11

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-1	25B5053-01	Water	02/25/25 15:20	02/26/25 16:07
GW-3	25B5053-02	Water	02/25/25 14:50	02/26/25 16:07



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
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Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Ground Water
Project Number: [none]

Reported:
03/11/25 15:11

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-1 (25B5053-01)										
	Sample Type: Water					Sampled: 02/25/25 15:20				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Calcium	45	mg/L	5.0	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Magnesium	14	mg/L	0.60	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Manganese	0.11	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Sodium	8.3	mg/L	6.0	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	7.94	pH Units	1.68	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	390	umhos/cm@25°q	10	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2510B	
Total Alkalinity as CaCO3	190	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AB55695	02/27/25 15:50	03/04/25 14:13	1551	SM2540D	
Turbidity	ND	NTU	0.50	1	AB55629	02/26/25 19:00	02/27/25 10:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	190	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hardness, Total	172	mg/L	15	1	AC53230	03/03/25 08:33	03/03/25 12:42	2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AB55671	02/27/25 10:36	02/27/25 15:11	2303	EPA 300.0	
Sulfate as SO4	17	mg/L	0.50	1	AB55671	02/27/25 10:36	02/27/25 15:11	2303	EPA 300.0	
GW-3 (25B5053-02)										
	Sample Type: Water					Sampled: 02/25/25 14:50				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	
Boron	0.39	mg/L	0.10	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	
Calcium	32	mg/L	5.0	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	
Iron	0.70	mg/L	0.10	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	
Magnesium	9.4	mg/L	0.60	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	
Manganese	0.052	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	
Sodium	24	mg/L	6.0	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	EPA 200.7	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Ground Water
Project Number: [none]

Reported:
03/11/25 15:11

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (25B5053-02)			Sample Type: Water			Sampled: 02/25/25 14:50				
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	8.03	pH Units	1.68	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	360	umhos/cm@25°i	10	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2510B	
Total Alkalinity as CaCO3	180	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Total Suspended Solids	2.3	mg/L	1.0	1	AB55695	02/27/25 15:50	03/04/25 14:13	1551	SM2540D	
Turbidity	3.5	NTU	0.50	1	AB55629	02/26/25 19:00	02/27/25 10:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	180	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hardness, Total	119	mg/L	15	1	AC53230	03/03/25 08:33	03/03/25 12:45	2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AB55671	02/27/25 10:36	02/27/25 15:24	2303	EPA 300.0	T-01
Sulfate as SO4	5.3	mg/L	0.50	1	AB55671	02/27/25 10:36	02/27/25 15:24	2303	EPA 300.0	



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Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Ground Water
Project Number: [none]

Reported:
03/11/25 15:11

Notes and Definitions

QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.

T-01 This sample was received outside recommended holding time. Client or project manager notified.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

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Work Order

Chain of Custody Record

Lab No.

25B 5053

Page of

Company Name: Mayacma Geothermal LLC		Project Name: Ground Water		Project Number:		Signature below authorizes work under terms stated on reverse side.																																	
Mailing Address: 245 E Liberty St Suite 520 Reno, NV 89501		Project Address:		Quote #		Analysis Request 3.6																																	
Project Contact (Hardcopy or PDF to): John Casteel John@openmountainenergy.com		P.O. #		Quote #		TAT																																	
Phone/Fax: 775-260-8351		Bill to: Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com				All samples: Metals by EPA 200 As, B, Ca, Cu, Fe, Pb, Mg, Mn, Na, Zn																																	
Samplers Signature: LUCAS PETER		Sampling		Container			Preservative			Matrix			Conventional Chemistry Parameters by APHA/EPA Methods: pH, Specific conductance (EC), Total Alk as CaCO ₃ , TSS, Turbidity, Bicarbonate Alkalinity as CaCO ₃ , Carbonate Alkalinity as CaCO ₃ , Hydroxide Alkalinity as CaCO ₃ , Hardness																										
Sample Designation		Date Time		40ml VOA			Poly			Amber			Sleeve			HCL			HNO₃			H₂SO₄			None			Water			Soil			Lab Approval Required					
GW-1		2/25/25 15:20																																1 wk					
GW-3		2/25/25 14:50																																2 wk (standard)					

WORK ORDER

25B5053

2.1^u
Printed: 2/26/2025 6:24:04PM

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Geothermal LLC

Client Code: NBSM_MGLLC

Bid: Services List

Project: Ground Water

Project Number: [none]

PO #:

Date Due: 03/12/25 15:00 (10 day TAT)

Received By: Cade J Burkhammer

Date Received: 02/26/25 16:07

Logged In By: Cade J Burkhammer

Date Logged: 02/26/25 16:31

Samples Received at: _____ deg C

Analysis

Department

Expires

Comments

25B5053-01 GW-1 [Water] Sampled 02/25/25 15:20

Solids, TSS-SM2540D

Wet Chem

03/04/25 23:59

25B5053-02 GW-1 [Water] Sampled 02/26/25 16:31

Solids, TSS-SM2540D

Wet Chem

03/05/25 23:59

25B5053-03 GW-3 [Water] Sampled 02/25/25 14:50

Solids, TSS-SM2540D

Wet Chem

03/04/25 23:59

Containers Supplied:

1L Poly - Unpres (C)

1L Poly - Unpres (C)

1L Poly - Unpres (C)

Relinquished By

Date

Received By

Date

Time

Relinquished By

Date

Received By

Date

Time



alpha

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

11 March 2025

Mayacma Geothermal LLC

Attn: John Casteel

245 E Liberty St Suite 520

Reno, NV 89501

RE: Surface Water

Work Order: 25B5060

Enclosed are the results of analyses for samples received by the laboratory on 02/26/25 16:09. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Surface Water
Project Number: [none]

Reported:
03/11/25 15:13

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-6	25B5060-01	Water	02/26/25 08:10	02/26/25 16:09
SW-7	25B5060-02	Water	02/25/25 15:05	02/26/25 16:09
SW-8	25B5060-03	Water	02/25/25 15:55	02/26/25 16:09
SW-9	25B5060-04	Water	02/25/25 15:30	02/26/25 16:09
SW-10	25B5060-05	Water	02/25/25 15:45	02/26/25 16:09



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Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Surface Water
Project Number: [none]

Reported:
03/11/25 15:13

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (25B5060-01)			Sample Type: Water			Sampled: 02/26/25 08:10				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Calcium	12	mg/L	5.0	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Iron	0.51	mg/L	0.10	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Magnesium	19	mg/L	0.60	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC53620	03/07/25 05:40	03/07/25 13:30	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	11	mg/L	0.10	1	AC53280	02/27/25 16:00	02/27/25 17:00	1551	SM4500-O G	T-14
pH	8.35	pH Units	1.68	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	220	umhos/cm@25°	10	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2510B	
Total Alkalinity as CaCO3	120	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Total Suspended Solids	2.3	mg/L	1.0	1	AB55695	02/27/25 15:50	03/04/25 14:13	1551	SM2540D	
Turbidity	2.8	NTU	0.50	1	AB55629	02/26/25 19:00	02/27/25 10:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	120	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hardness, Total	107	mg/L	15	1	AB55755	02/28/25 07:31	03/04/25 14:02	2303	SM2340B	

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Surface Water
Project Number: [none]

Reported:
03/11/25 15:13

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (25B5060-01)										
			Sample Type: Water			Sampled: 02/26/25 08:10				
Anions by EPA Method 300.0										
Sulfate as SO4	3.4	mg/L	0.50	1	AB55785	02/28/25 11:03	02/28/25 14:09	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	1100	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	
E. Coli	22	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	
SW-7 (25B5060-02)										
			Sample Type: Water			Sampled: 02/25/25 15:05				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Calcium	13	mg/L	5.0	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Magnesium	11	mg/L	0.60	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC53620	03/07/25 05:40	03/07/25 13:32	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	EPA 200.7	

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Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Surface Water
Project Number: [none]

Reported:
03/11/25 15:13

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-7 (25B5060-02)										
Sample Type: Water					Sampled: 02/25/25 15:05					
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	11	mg/L	0.10	1	AC53280	02/27/25 16:00	02/27/25 17:00	1551	SM4500-O G	T-14
pH	7.97	pH Units	1.68	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	180	umhos/cm@25°	10	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2510B	
Total Alkalinity as CaCO3	85	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AB55695	02/27/25 15:50	03/04/25 14:13	1551	SM2540D	
Turbidity	0.56	NTU	0.50	1	AB55629	02/26/25 19:00	02/27/25 10:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	85	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hardness, Total	79	mg/L	15	1	AB55755	02/28/25 07:31	03/04/25 14:05	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	5.9	mg/L	0.50	1	AB55785	02/28/25 11:03	02/28/25 14:22	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	170	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	T-06
E. Coli	2.0	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	T-06
SW-8 (25B5060-03)										
Sample Type: Water					Sampled: 02/25/25 15:55					
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Calcium	6.1	mg/L	5.0	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Iron	0.11	mg/L	0.10	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Magnesium	4.7	mg/L	0.60	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC53620	03/07/25 05:40	03/07/25 13:35	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	EPA 200.7	

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Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Surface Water
Project Number: [none]

Reported:
03/11/25 15:13

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-8 (25B5060-03)										
Sample Type: Water					Sampled: 02/25/25 15:55					
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	11	mg/L	0.10	1	AC53280	02/27/25 16:00	02/27/25 17:00	1551	SM4500-O G	T-14
pH	7.93	pH Units	1.68	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	88	umhos/cm@25°	10	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2510B	
Total Alkalinity as CaCO3	44	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Total Suspended Solids	1.6	mg/L	1.0	1	AB55695	02/27/25 15:50	03/04/25 14:13	1551	SM2540D	
Turbidity	2.8	NTU	0.50	1	AB55629	02/26/25 19:00	02/27/25 10:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	44	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hardness, Total	35	mg/L	15	1	AB55755	02/28/25 07:31	03/04/25 14:17	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	1.3	mg/L	0.50	1	AB55785	02/28/25 11:03	02/28/25 14:35	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	820	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	T-06
E. Coli	6.3	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	T-06
SW-9 (25B5060-04)										
Sample Type: Water					Sampled: 02/25/25 15:30					
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Calcium	6.2	mg/L	5.0	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Magnesium	3.3	mg/L	0.60	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC53620	03/07/25 05:40	03/07/25 13:38	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	EPA 200.7	

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Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Surface Water
Project Number: [none]

Reported:
03/11/25 15:13

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-9 (25B5060-04)										
Sample Type: Water					Sampled: 02/25/25 15:30					
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	11	mg/L	0.10	1	AC53280	02/27/25 16:00	02/27/25 17:00	1551	SM4500-O G	T-14
pH	7.81	pH Units	1.68	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	81	umhos/cm@25°	10	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2510B	
Total Alkalinity as CaCO3	39	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AB55695	02/27/25 15:50	03/04/25 14:13	1551	SM2540D	
Turbidity	0.79	NTU	0.50	1	AB55629	02/26/25 19:00	02/27/25 10:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	39	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hardness, Total	29	mg/L	15	1	AC53230	03/03/25 08:33	03/03/25 12:48	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	1.9	mg/L	0.50	1	AB55785	02/28/25 11:03	02/28/25 14:48	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	280	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	T-06
E. Coli	9.7	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	T-06
SW-10 (25B5060-05)										
Sample Type: Water					Sampled: 02/25/25 15:45					
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Calcium	5.8	mg/L	5.0	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Iron	0.13	mg/L	0.10	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Magnesium	5.8	mg/L	0.60	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC53620	03/07/25 05:40	03/07/25 13:40	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	EPA 200.7	

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Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Surface Water
Project Number: [none]

Reported:
03/11/25 15:13

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-10 (25B5060-05)			Sample Type: Water			Sampled: 02/25/25 15:45				
Conventional Chemistry Parameters by APHA/EPA Methods										T-14
Dissolved Oxygen	11	mg/L	0.10	1	AC53280	02/27/25 16:00	02/27/25 17:00	1551	SM4500-O G	T-14
pH	7.44	pH Units	1.68	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	97	umhos/cm@25°i	10	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2510B	
Total Alkalinity as CaCO3	40	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Total Suspended Solids	3.5	mg/L	1.0	1	AB55695	02/27/25 15:50	03/04/25 14:13	1551	SM2540D	
Turbidity	3.6	NTU	0.50	1	AB55629	02/26/25 19:00	02/27/25 10:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	40	mg/L	20	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AB55737	02/27/25 16:37	02/28/25 12:30	2303	SM2320B	
Hardness, Total	38	mg/L	15	1	AB55755	02/28/25 07:31	03/04/25 14:20	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	0.91	mg/L	0.50	1	AB55785	02/28/25 11:03	02/28/25 15:01	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	820	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	T-06
E. Coli	6.3	MPN/100mL	1.0	1	AB55655	02/27/25 09:35	02/28/25 11:35	2303	SM9223B	T-06

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Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501

Project Manager: John Casteel
Project: Surface Water
Project Number: [none]

Reported:
03/11/25 15:13

Notes and Definitions

- T-06 Sample analyzed outside of recommended holding time.
- T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



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Work Order

Chain of Custody Record

Lab No.

2535200

Page 1 of 1

Company Name: Mayacma Geothermal LLC		Project Name: Surface Water		Project Number:		Signature below authorizes work under terms stated on reverse side.																			
Mailing Address: 245 E Liberty St Suite 520 Reno, NV 89501		Project Address:		P.O. #		Quote #		Analysis Request 3.6																	
Project Contact (Hardcopy or PDF to): John Casteel John@openmountainenergy.com		Bill to: Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com		Conventional Chemistry Parameters by APHA/EPA Methods Dissolved Oxygen, pH, Specific Conductance (EC), Total Alkalinity as CaCO ₃ , Total Suspended Solids, Turbidity, Bicarbonate Alkalinity as CaCO ₃ , Carbonate Alkalinity as CaCO ₃ , Hydroxide Alkalinity as CaCO ₃ , Hardness		TAT 24 hr ☐ 48 hr ☐ Lab Approval Required 1 wk ☐ 2 wk (standard) ☐																			
Samplers Signature: <i>Liam Petro</i>		Sampling		Container		Preservative		Matrix		All Samples: Metals by EPA 200 Series Methods As, B, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Na, V, Zn Anions by EPA Method 300.0 Sulfate as SO ₄ Microbiological Parameters by APHA Standard Methods Total Coliforms, E. Coli Reference Work Order: 24E4450 for list Please provide report as PDF and excel.															
Sample Designation		Date Time		40ml VOA		Poly		Amber		Sleeve		HCL		HNO ₃		H ₂ SO ₄		None		Water		Soil		For Lab Use Only	
SW-6		2/26/25 8:10																							
SW-7		2/25/25 15:05																							
SW-8		1 15:55																							
SW-9		1 15:30																							
SW-10		1 15:45																							
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date 2/26/25		Time 1609		California EDF Report? ☐ Yes ☐ No																	
Relinquished by:		Received by:		Date		Time		Sampling Company Log Code:																	
Relinquished by:		Received for Laboratory by:		Date		Time		Global ID:																	
								EDF to (Email Address):																	
								Drinking Water State System/Source Number:																	
Sample Condition on Receipt:		Travel and Site Time:		Mileage:		Misc. Supplies:																			

WORK ORDER

2.12

Printed: 2/26/2025 6:24:00PM

25B5060

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Geothermal LLC

Client Code: NBSM_MGLLC

Bid: Services List

Project: Surface Water

Project Number: [none]

PO #:

Date Due: 03/12/25 15:00 (10 day TAT)

Received By: Cade J Burkhammer

Date Received: 02/26/25 16:09

Logged In By: Cade J Burkhammer

Date Logged: 02/26/25 16:39

Samples Received at: _____ deg C

Analysis	Department	Expires	Comments
25B5060-01 SW-6 [Water] Sampled 02/26/25 08:10			
Diss Oxygen SM4500	Wet Chem	02/26/25 08:24	
Hg CVAA Total 245.1	Metals	03/26/25 23:59	
Solids, TSS-SM2540D	Wet Chem	03/05/25 23:59	
25B5060-02 SW-7 [Water] Sampled 02/26/25 15:05			
Diss Oxygen SM4500	Wet Chem	02/26/25 15:19	
Hg CVAA Total 245.1	Metals	03/26/25 23:59	
Solids, TSS-SM2540D	Wet Chem	03/05/25 23:59	
25B5060-03 SW-8 [Water] Sampled 02/26/25 15:55			
Diss Oxygen SM4500	Wet Chem	02/26/25 16:09	
Hg CVAA Total 245.1	Metals	03/26/25 23:59	
Solids, TSS-SM2540D	Wet Chem	03/05/25 23:59	
25B5060-04 SW-9 [Water] Sampled 02/26/25 15:30			
Diss Oxygen SM4500	Wet Chem	02/26/25 15:44	
Hg CVAA Total 245.1	Metals	03/26/25 23:59	
Solids, TSS-SM2540D	Wet Chem	03/05/25 23:59	
25B5060-05 SW-10 [Water] Sampled 02/26/25 15:45			
Diss Oxygen SM4500	Wet Chem	02/26/25 15:59	
Hg CVAA Total 245.1	Metals	03/26/25 23:59	
Solids, TSS-SM2540D	Wet Chem	03/05/25 23:59	

Relinquished By

Date

Received By

Date

Time

Relinquished By

Date

Received By

Date

Time

25B5060

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Geothermal LLC
Project: Surface Water

Client Code: NBSM_MGLLC
Project Number: [none]

Bid: Services List
PO #:

Containers Supplied:

- 1L Poly - Unpres (F)
- 1L Poly - Unpres (F)
- 1L Poly - Unpres (F)
- 1L Poly - Unpres (F)
- 1L Poly - Unpres (F)
- 250mL Poly HNO3 (E)
- 250mL Poly HNO3 (E)
- 250mL Poly HNO3 (E)
- 250mL Poly HNO3 (E)
- 250mL Poly HNO3 (E)
- VOA Vial - Unpres (D)
- VOA Vial - Unpres (D)
- VOA Vial - Unpres (D)
- VOA Vial - Unpres (D)
- VOA Vial - Unpres (D)

**SGS EXCELCHEM
Laboratories, Inc.**

**1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445**



ELAP Certificate No. : 2119

13 June 2025

Lucas Peters

Mayacma Geothermal LLC

245 E Liberty St. STE 520

Reno, NV 89501

RE: Surface Water

Work order number:2505137

Enclosed are the results of analyses for samples received by the laboratory on 05/22/25 15:04. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,



Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-9	2505137-01	Water	05/21/25 12:52	05/22/25 15:04
SW-10	2505137-02	Water	05/21/25 13:05	05/22/25 15:04
SW-8	2505137-03	Water	05/21/25 13:22	05/22/25 15:04
SW-6	2505137-04	Water	05/21/25 13:58	05/22/25 15:04

SGS Excelchem Laboratories, Inc.



Doug Selby, Technical Director

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SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

SW-9 2505137-01 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	0.15	0.50	mg/L	AIE0198	05/23/25	05/23/25	EPA 300.0	J
Nitrate as Nitrogen	0.03	0.11	"	"	"	"	"	J
Sulfate as SO4	2.0	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	40.0	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	
Bicarbonate Alkalinity	40.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	U
Specific Conductance (@25°C)	87.1	1.00	uS/cm	AIE0199	05/28/25	05/28/25	EPA 120.1	
Dissolved Oxygen	8.6	0.5	PPM	AIE0186	05/23/25	05/27/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	U
pH	7.87	0.100	pH Units	AIE0217	05/29/25	05/29/25	SM 4500-H+ B	Field, Z-01a
Total Hardness	32.0	5.00	mg/L	AIE0212	05/28/25	05/28/25	SM2340C	
Total Suspended Solids	1.2	1.1	"	AIE0178	05/23/25	05/23/25	SM 2540D	
Turbidity	0.6	0.1	NTU	AIE0176	05/23/25	05/23/25	EPA 180.1	

Total Recoverable Metals

Aluminum	ND	50.0	ug/l	AIF0029	06/04/25	06/05/25	EPA 200.7	U
Arsenic	ND	2.5	"	"	"	"	"	U
Boron	142	25.0	"	"	"	"	"	
Calcium	7060	50.0	"	"	"	"	"	
Chromium	0.8	2.5	"	"	"	"	"	J
Copper	0.4	2.5	"	"	"	"	"	J
Iron	64.4	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	U
Magnesium	3690	50.0	"	"	"	"	"	
Manganese	5.5	5.0	"	"	"	"	"	
Mercury	0.336	0.200	"	AIF0034	06/09/25	06/09/25	EPA 245.1	
Potassium	1500	200	"	AIF0029	06/04/25	06/05/25	EPA 200.7	
Sodium	4830	100	"	"	"	"	"	
Vanadium	0.5	2.5	"	"	"	"	"	J
Zinc	1.2	5.0	"	"	"	"	"	J

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

SW-9
2505137-01 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Microbiology

Total Coliform (P/A)	Present	1	100mls	AIE0179	05/22/25	05/22/25	SM9223	
E. Coli (P/A)	Present	1	"	"	"	"	"	

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

SW-10 2505137-02 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	mg/L	AIE0198	05/23/25	05/23/25	EPA 300.0	U
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	U
Sulfate as SO4	0.6	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	52.0	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	
Bicarbonate Alkalinity	52.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	U
Specific Conductance (@25°C)	111	1.00	uS/cm	AIE0199	05/28/25	05/28/25	EPA 120.1	
Dissolved Oxygen	8.4	0.5	PPM	AIE0186	05/23/25	05/27/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	U
pH	8.01	0.100	pH Units	AIE0217	05/29/25	05/29/25	SM 4500-H+ B	Field, Z-01
Total Hardness	44.0	5.00	mg/L	AIE0212	05/28/25	05/28/25	SM2340C	
Total Suspended Solids	3.1	1.0	"	AIE0178	05/23/25	05/23/25	SM 2540D	
Turbidity	1.7	0.1	NTU	AIE0176	05/23/25	05/23/25	EPA 180.1	

Total Recoverable Metals

Aluminum	154	50.0	ug/l	AIF0029	06/04/25	06/05/25	EPA 200.7	
Arsenic	ND	2.5	"	"	"	"	"	U
Boron	20.5	25.0	"	"	"	"	"	J
Calcium	7500	50.0	"	"	"	"	"	
Chromium	1.2	2.5	"	"	"	"	"	J
Copper	0.3	2.5	"	"	"	"	"	J
Iron	176	10.0	"	"	"	"	"	
Lead	0.5	2.5	"	"	"	"	"	J
Magnesium	6480	50.0	"	"	"	"	"	
Manganese	10.1	5.0	"	"	"	"	"	
Mercury	ND	0.200	"	AIF0034	06/09/25	06/09/25	EPA 245.1	U
Potassium	1500	200	"	AIF0029	06/04/25	06/05/25	EPA 200.7	
Sodium	5660	100	"	"	"	"	"	
Vanadium	2.2	2.5	"	"	"	"	"	J
Zinc	1.4	5.0	"	"	"	"	"	J

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

SW-10
2505137-02 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Microbiology

Total Coliform (P/A)	Present	1	100mls	AIE0179	05/22/25	05/22/25	SM9223	
E. Coli (P/A)	Present	1	"	"	"	"	"	

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

SW-8 2505137-03 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	0.09	0.50	mg/L	AIE0198	05/23/25	05/23/25	EPA 300.0	J
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	U
Sulfate as SO4	1.0	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	48.0	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	
Bicarbonate Alkalinity	48.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	U
Specific Conductance (@25°C)	105	1.00	uS/cm	AIE0199	05/28/25	05/28/25	EPA 120.1	
Dissolved Oxygen	8.0	0.5	PPM	AIE0186	05/23/25	05/27/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	U
pH	7.93	0.100	pH Units	AIE0217	05/29/25	05/29/25	SM 4500-H+ B	Field, Z-01
Total Hardness	38.0	5.00	mg/L	AIE0212	05/28/25	05/28/25	SM2340C	
Total Suspended Solids	3.1	1.0	"	AIE0178	05/23/25	05/23/25	SM 2540D	
Turbidity	2.0	0.1	NTU	AIE0176	05/23/25	05/23/25	EPA 180.1	

Total Recoverable Metals

Aluminum	119	50.0	ug/l	AIF0029	06/04/25	06/05/25	EPA 200.7	
Arsenic	ND	2.5	"	"	"	"	"	U
Boron	51.9	25.0	"	"	"	"	"	
Calcium	7340	50.0	"	"	"	"	"	
Chromium	1.0	2.5	"	"	"	"	"	J
Copper	0.4	2.5	"	"	"	"	"	J
Iron	144	10.0	"	"	"	"	"	
Lead	0.5	2.5	"	"	"	"	"	J
Magnesium	5580	50.0	"	"	"	"	"	
Manganese	8.4	5.0	"	"	"	"	"	
Mercury	ND	0.200	"	AIF0034	06/09/25	06/09/25	EPA 245.1	U
Potassium	1470	200	"	AIF0029	06/04/25	06/05/25	EPA 200.7	
Sodium	5310	100	"	"	"	"	"	
Vanadium	1.8	2.5	"	"	"	"	"	J
Zinc	1.6	5.0	"	"	"	"	"	J

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

SW-8
2505137-03 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Microbiology

Total Coliform (P/A)	Present	1	100mls	AIE0179	05/22/25	05/22/25	SM9223	
E. Coli (P/A)	Present	1	"	"	"	"	"	

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

SW-6 2505137-04 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	mg/L	AIE0198	05/23/25	05/23/25	EPA 300.0	U
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	U
Sulfate as SO4	2.8	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	122	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	
Bicarbonate Alkalinity	122	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	U
Specific Conductance (@25°C)	269	1.00	uS/cm	AIE0199	05/28/25	05/28/25	EPA 120.1	
Dissolved Oxygen	8.3	0.5	PPM	AIE0186	05/23/25	05/27/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	U
pH	8.37	0.100	pH Units	AIE0217	05/29/25	05/29/25	SM 4500-H+ B	Field, Z-01
Total Hardness	128	5.00	mg/L	AIE0212	05/28/25	05/28/25	SM2340C	
Total Suspended Solids	1.0	1.0	"	AIE0178	05/23/25	05/23/25	SM 2540D	
Turbidity	0.9	0.1	NTU	AIE0176	05/23/25	05/23/25	EPA 180.1	

Total Recoverable Metals

Aluminum	39.1	50.0	ug/l	AIF0029	06/04/25	06/05/25	EPA 200.7	J
Arsenic	ND	2.5	"	"	"	"	"	U
Boron	83.3	25.0	"	"	"	"	"	
Calcium	13900	50.0	"	"	"	"	"	
Chromium	1.3	2.5	"	"	"	"	"	J
Copper	0.3	2.5	"	"	"	"	"	J
Iron	57.4	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	U
Magnesium	22600	50.0	"	"	"	"	"	
Manganese	5.6	5.0	"	"	"	"	"	
Mercury	ND	0.200	"	AIF0034	06/09/25	06/09/25	EPA 245.1	U
Potassium	1220	200	"	AIF0029	06/04/25	06/05/25	EPA 200.7	
Sodium	6190	100	"	"	"	"	"	
Vanadium	1.5	2.5	"	"	"	"	"	J
Zinc	ND	5.0	"	"	"	"	"	U

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

SW-6
2505137-04 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Microbiology

Total Coliform (P/A)	Present	1	100mls	AIE0179	05/22/25	05/22/25	SM9223	
E. Coli (P/A)	Present	1	"	"	"	"	"	

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIE0198 - EPA 300.0

Blank (AIE0198-BLK1)

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	ND	0.50	mg/L							U
Nitrate as Nitrogen	ND	0.11	"							U
Sulfate as SO4	ND	0.5	"							U

LCS (AIE0198-BS1)

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	10.6	0.50	mg/L	10.0		106	90-110			
Nitrate as Nitrogen	2.38	0.11	"	2.26		106	90-110			
Sulfate as SO4	10.5	0.5	"	10.0		105	80-120			

LCS Dup (AIE0198-BSD1)

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	10.5	0.50	mg/L	10.0		105	90-110	0.918	20	
Nitrate as Nitrogen	2.36	0.11	"	2.26		105	90-110	0.918	20	
Sulfate as SO4	10.4	0.5	"	10.0		104	80-120	0.788	20	

Matrix Spike (AIE0198-MS1)

Source: 2505133-02

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	28.7	0.50	mg/L	10.0	21.0	77.0	75-125			
Nitrate as Nitrogen	6.48	0.11	"	2.26	4.74	77.0	75-125			
Sulfate as SO4	37.9	0.5	"	10.0	31.5	64.5	75-125			QM-07

Matrix Spike Dup (AIE0198-MSD1)

Source: 2505133-02

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	28.8	0.50	mg/L	10.0	21.0	78.6	75-125	0.549	20	
Nitrate as Nitrogen	6.52	0.11	"	2.26	4.74	78.6	75-125	0.549	20	
Sulfate as SO4	38.2	0.5	"	10.0	31.5	67.4	75-125	0.769	20	QM-07

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIE0176 - EPA 180.1

Blank (AIE0176-BLK1)

Prepared & Analyzed: 05/23/25

Turbidity	0.06	0.1	NTU							J
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Duplicate (AIE0176-DUP1)

Source: 2505138-02

Prepared & Analyzed: 05/23/25

Turbidity	0.2	0.1	NTU		0.2			12.8	20	
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Batch AIE0178 - SM 2540D

Blank (AIE0178-BLK1)

Prepared & Analyzed: 05/23/25

Total Suspended Solids	ND	1.0	mg/L							U
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LCS (AIE0178-BS1)

Prepared & Analyzed: 05/23/25

Total Suspended Solids	179	10.0	mg/L	200		89.5	80-120			
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Duplicate (AIE0178-DUP1)

Source: 2505112-08

Prepared & Analyzed: 05/23/25

Total Suspended Solids	318	20.0	mg/L		328			3.10	20	
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Duplicate (AIE0178-DUP2)

Source: 2505122-06

Prepared & Analyzed: 05/23/25

Total Suspended Solids	334	10.0	mg/L		298			11.4	20	
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Batch AIE0186 - SM 4500

Duplicate (AIE0186-DUP1)

Source: 2505137-01

Prepared: 05/23/25 Analyzed: 05/27/25

Dissolved Oxygen	8.5	0.5	PPM		8.6			1.06	20	
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Batch AIE0199 - EPA 120.1

Duplicate (AIE0199-DUP1)

Source: 2505137-03

Prepared & Analyzed: 05/28/25

Specific Conductance (@25°C)	104	1.00	uS/cm		105			0.574	20	
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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIE0211 - SM2320B

Blank (AIE0211-BLK1)

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	2.00	5.00	mg/L							J
Carbonate Alkalinity	ND	5.00	"							U
Hydroxide Alkalinity	ND	5.00	"							U
Total Alkalinity	2.00	5.00	"							J

LCS (AIE0211-BS1)

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	100	5.00	mg/L				80-120			
Total Alkalinity	100	5.00	"	100		100	80-120			

LCS Dup (AIE0211-BSD1)

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	100	5.00	mg/L				80-120	0.00	20	
Total Alkalinity	100	5.00	"	100		100	80-120	0.00	20	

Duplicate (AIE0211-DUP1)

Source: 2505137-04

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	124	5.00	mg/L		122			1.63	20	
Carbonate Alkalinity	ND	5.00	"		ND				20	U
Hydroxide Alkalinity	ND	5.00	"		ND				20	U
Total Alkalinity	124	5.00	"		122			1.63	20	

Matrix Spike (AIE0211-MS1)

Source: 2505137-04

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	124	5.00	mg/L		122		80-120			
Total Alkalinity	224	5.00	"	100	122	102	80-120			

Matrix Spike Dup (AIE0211-MSD1)

Source: 2505137-04

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	124	5.00	mg/L		122		80-120	0.00	20	
Total Alkalinity	224	5.00	"	100	122	102	80-120	0.00	20	

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AIE0212 - SM2340C										
Blank (AIE0212-BLK1)				Prepared & Analyzed: 05/28/25						
Total Hardness	ND	5.00	mg/L							U
LCS (AIE0212-BS1)				Prepared & Analyzed: 05/28/25						
Total Hardness	50.0	5.00	mg/L	50.0		100	80-120			
LCS Dup (AIE0212-BSD1)				Prepared & Analyzed: 05/28/25						
Total Hardness	50.0	5.00	mg/L	50.0		100	80-120	0.00	20	
Duplicate (AIE0212-DUP1)		Source: 2505137-01		Prepared & Analyzed: 05/28/25						
Total Hardness	32.0	5.00	mg/L		32.0			0.00	20	
Matrix Spike (AIE0212-MS1)		Source: 2505137-01		Prepared & Analyzed: 05/28/25						
Total Hardness	82.0	5.00	mg/L	50.0	32.0	100	75-125			
Matrix Spike Dup (AIE0212-MSD1)		Source: 2505137-01		Prepared & Analyzed: 05/28/25						
Total Hardness	84.0	5.00	mg/L	50.0	32.0	104	75-125	2.41	20	
Batch AIE0217 - SM 4500-H+ B										
Duplicate (AIE0217-DUP1)		Source: 2505137-04		Prepared & Analyzed: 05/29/25						
pH	8.38	0.100	pH Units		8.37			0.0716	20	Field, Z-01b

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIF0029 - EPA 200.7

Blank (AIF0029-BLK1)

Prepared: 06/04/25 Analyzed: 06/05/25

Aluminum	ND	50.0	ug/l							U
Boron	ND	25.0	"							U
Arsenic	ND	2.5	"							U
Calcium	ND	50.0	"							U
Chromium	0.100	2.5	"							J
Copper	ND	2.5	"							U
Iron	ND	10.0	"							U
Lead	0.800	2.5	"							J
Magnesium	ND	50.0	"							U
Manganese	ND	5.0	"							U
Potassium	ND	200	"							U
Sodium	ND	100	"							U
Vanadium	ND	2.5	"							U
Zinc	0.900	5.0	"							J

LCS (AIF0029-BS1)

Prepared: 06/04/25 Analyzed: 06/05/25

Boron	473	25.0	ug/l	500	94.5	85-115
Aluminum	490	50.0	"	500	97.9	85-115
Arsenic	482	2.5	"	500	96.3	85-115
Calcium	527	50.0	"	500	105	85-115
Chromium	476	2.5	"	500	95.2	85-115
Copper	476	2.5	"	500	95.2	85-115
Iron	484	10.0	"	500	96.9	85-115
Lead	481	2.5	"	500	96.3	85-115
Magnesium	481	50.0	"	500	96.2	85-115
Manganese	478	5.0	"	500	95.5	85-115
Potassium	4830	200	"	5000	96.5	85-115
Sodium	493	100	"	500	98.6	85-115
Vanadium	479	2.5	"	500	95.8	85-115
Zinc	481	5.0	"	500	96.2	85-115

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIF0029 - EPA 200.7

LCS Dup (AIF0029-BSD1)

Prepared: 06/04/25 Analyzed: 06/05/25

Aluminum	499	50.0	ug/l	500		99.8	85-115	1.94	20	
Boron	477	25.0	"	500		95.4	85-115	0.969	20	
Arsenic	508	2.5	"	500		102	85-115	5.45	20	
Calcium	529	50.0	"	500		106	85-115	0.473	20	
Chromium	501	2.5	"	500		100	85-115	5.10	20	
Copper	500	2.5	"	500		100	85-115	5.00	20	
Iron	512	10.0	"	500		102	85-115	5.62	20	
Lead	507	2.5	"	500		101	85-115	5.10	20	
Magnesium	504	50.0	"	500		101	85-115	4.77	20	
Manganese	504	5.0	"	500		101	85-115	5.46	20	
Potassium	4930	200	"	5000		98.6	85-115	2.09	20	
Sodium	509	100	"	500		102	85-115	3.09	20	
Vanadium	504	2.5	"	500		101	85-115	5.21	20	
Zinc	507	5.0	"	500		101	85-115	5.26	20	

Matrix Spike (AIF0029-MS1)

Source: 2505137-02

Prepared: 06/04/25 Analyzed: 06/05/25

Aluminum	679	50.0	ug/l	500	154	105	75-125			
Boron	514	25.0	"	500	20.5	98.8	75-125			
Arsenic	481	2.5	"	500	ND	96.2	75-125			
Calcium	7790	50.0	"	500	7500	58.9	75-125			QM-05
Chromium	473	2.5	"	500	1.20	94.4	75-125			
Copper	478	2.5	"	500	0.300	95.5	75-125			
Iron	655	10.0	"	500	176	95.9	75-125			
Lead	466	2.5	"	500	0.500	93.1	75-125			
Magnesium	6810	50.0	"	500	6480	65.0	75-125			QM-05
Manganese	487	5.0	"	500	10.1	95.3	75-125			
Potassium	6470	200	"	5000	1500	99.4	75-125			
Sodium	5970	100	"	500	5660	60.8	75-125			QM-05
Vanadium	482	2.5	"	500	2.20	96.0	75-125			
Zinc	475	5.0	"	500	1.40	94.7	75-125			

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245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIF0029 - EPA 200.7

Matrix Spike Dup (AIF0029-MSD1)		Source: 2505137-02		Prepared: 06/04/25 Analyzed: 06/05/25						
Boron	514	25.0	ug/l	500	20.5	98.6	75-125	0.156	25	
Aluminum	682	50.0	"	500	154	106	75-125	0.456	25	
Arsenic	519	2.5	"	500	ND	104	75-125	7.56	25	
Calcium	7890	50.0	"	500	7500	78.2	75-125	1.23	25	
Chromium	509	2.5	"	500	1.20	102	75-125	7.25	25	
Copper	511	2.5	"	500	0.300	102	75-125	6.75	25	
Iron	695	10.0	"	500	176	104	75-125	5.82	25	
Lead	501	2.5	"	500	0.500	100	75-125	7.28	25	
Magnesium	6880	50.0	"	500	6480	79.2	75-125	1.03	25	
Manganese	522	5.0	"	500	10.1	102	75-125	7.06	25	
Potassium	6500	200	"	5000	1500	100	75-125	0.493	25	
Sodium	6050	100	"	500	5660	78.4	75-125	1.47	25	
Vanadium	518	2.5	"	500	2.20	103	75-125	7.14	25	
Zinc	511	5.0	"	500	1.40	102	75-125	7.27	25	

Batch AIF0034 - EPA 245.1

Blank (AIF0034-BLK1)		Prepared & Analyzed: 06/09/25								
Mercury	ND	0.200	ug/l							U
LCS (AIF0034-BS1)		Prepared & Analyzed: 06/09/25								
Mercury	4.35	0.200	ug/l	4.00		109	85-115			
LCS Dup (AIF0034-BSD1)		Prepared & Analyzed: 06/09/25								
Mercury	4.19	0.200	ug/l	4.00		105	85-115	3.75	20	
Matrix Spike (AIF0034-MS1)		Source: 2505137-03		Prepared & Analyzed: 06/09/25						
Mercury	4.38	0.200	ug/l	4.00	ND	110	75-125			

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIF0034 - EPA 245.1

Matrix Spike Dup (AIF0034-MSD1)

Source: 2505137-03

Prepared & Analyzed: 06/09/25

Mercury	3.55	0.200	ug/l	4.00	ND	88.8	75-125	21.0	20	QR-03
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245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

Notes and Definitions

Z-01b Corrected Temperature: 23.4 degrees celsius
Z-01a Corrected Temperature: 23.2 degrees celsius
Z-01 Corrected Temperature: 23.1 degrees celsius
U Undetected
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
Field This analyte was analyzed outside of the EPA recommended hold time of 15 minutes and should be analyzed in the field.
ND Analyte not detected at reporting limit.
NR Not reported



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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

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Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43

		1135 West Sunset Blvd., STE A, Rocklin, CA 95765 Phone (916) 543-4445		CHAIN-OF-CUSTODY-RECORD Page 1 of 1																																																																
Report Results To: Report Attention: <u>Lucas Peters</u> Company: <u>Mayacma Geothermal LLC</u> Mailing Address: <u>245 E Liberty St STE 520</u> City, State, Zip: <u>Reno, NV 89501</u> Phone: <u>585-752-6821</u> Email / Fax: <u>Lucas@openmountainenergy.com</u>		Send Invoice To: Invoice Attention: <u>Accounts Payable</u> Company: <u>Mayacma Geothermal LLC</u> Mailing Address: <u>245 E Liberty St STE 520</u> City, State, Zip: <u>Reno, NV 89501</u> Phone: <u>Accounting@openmountainenergy.com</u>		PO# _____ Quote # _____ COMPLIANCE MONITORING? Yes ☒ No ☐ Results: ☐ Invoice: ☐ Applicable Program SDWA ☐ CWA ☐ RCRA ☐ Mining ☐ Other <u>Geo</u> QC Level Report I II III IV NOTE: Surcharges apply to Level II, III and IV reports																																																																
Sampled by: <u>Lucas Peters</u> Signature: <u>[Signature]</u> I attest to the validity and authenticity of the sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time is considered fraud and may be grounds for legal action.		ANALYSES REQUESTED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Standard</th> <th>Rush</th> <th>Same Day</th> <th>1 Day</th> <th>2 Day</th> <th>3 Day</th> <th>4 Day</th> <th>5 Day</th> <th>Other (specify):</th> <th>Other Pertinent Information / Special Instructions</th> </tr> <tr> <td>☒ Standard TAT 10 Business Days. Note that some tests vary.</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td></td> </tr> <tr> <td colspan="9">NOTE: A Rush Surcharge is applied for rush samples</td> </tr> </table>				Standard	Rush	Same Day	1 Day	2 Day	3 Day	4 Day	5 Day	Other (specify):	Other Pertinent Information / Special Instructions	☒ Standard TAT 10 Business Days. Note that some tests vary.	☐	☐	☐	☐	☐	☐	☐	☐		NOTE: A Rush Surcharge is applied for rush samples																																										
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See quote 2025 895	X	X	X	X	X	X	X	X	X	X	X	X	X																																																							
Signature: <u>Lucas Peters</u> Print Name: <u>BRYAN Lee</u> Relinquished By: <u>[Signature]</u> Received By: _____ Relinquished By: _____ Received By: _____ Relinquished By: _____ Received By: _____ Authorized By: _____		Company: <u>Mayacma Geothermal</u> <u>SGS ROCKLIN</u> Date: <u>5/22/25</u> <u>5/22/25</u> Time: <u>3:04 pm</u> <u>1504</u>																																																																		
Authorization is required to process samples. This obligates your organization for service fees. SGS Standard T & C's or other written agreement applies. If collections or legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees. Matrix* DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other Preservative** 1=H ₂ SO ₄ , 2=HNO ₃ , 3=HCl, 4=NaOH, 5=Na ₂ S ₂ O ₃ , 6=None, 7=Other							Samples are discarded 30 days after results are reported unless other arrangements are made and storage fees may apply. The analytical results associated with this COC apply only to these samples as they are received by the laboratory. The liability of the laboratory is limited to the amount paid for the report. Container*** P-Plastic, G-Glass, V-Vial, OT-Other																																																													

SGS Excelchem Laboratories, Inc.

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[Signature]

Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
06/13/25 14:43



SGS - Rocklin
Sample Integrity
FN: F-ROC-SC-001-00
Rev. Date: 11/01/2023
Page 1 of 1

Sample Integrity

WORK ORDER: 2505137

Date Received: 5/22/25

Company Name: MAYACMA GEOTHERM
New Client: ☒ Y ☐ N

Section 1 - Sample Arrival Information	
Sample Transport:	ONTRAC UPS USPS <u>Walk-In</u> EXCELCHEM Courier Fed-Ex Other: _____
Transported In:	Ice Chest Box Hand
Packing materials:	Bubble Wrap Foam Packing Peanuts Paper Other: _____
Has chilling process begun?	☒ Y ☐ N Samples Received: Chilled to Touch / Ambient / <u>On Ice</u>
Temperature of Samples (°C):	<u>-0.9/-1.2</u> Ice Chest Temperature(s) (°C): <u>-1.4/-1.7</u>
Thermometer ID:	<u>DT-19</u> CF (°C): <u>-0.2</u>

Section 2 - Bottle/Analysis Info.		Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?		☒			
Did all bottle labels agree with COC?		☒			
Were correct containers used for the tests requested?		☒			
Were correct preservations used for the tests requested?		☒			
Was a sufficient amount of sample sent for tests indicated?		☒			
Were bubbles present in VOA Vials?: (Volatile Methods Only)				☒	
Is there head space in the VOA vials? (Volatile Methods Only)				☒	

Section 3- COC Information		Yes	No	Comments	Yes	No
COC Received	☒			Analysis Requested	☒	
Date Sampled	☒			Samples arrived within holding time	☒	
Time Sampled	☒			Hold times less than 72 hours	☒	
Sample ID	☒			Client Name	☒	
Rush Turn Around Time	☒			Client Contact Information	☒	

SHORT HOLD LIST (<72 hours)								
pH	Chlorine	Corrosivity	Coliform	Dissolved Oxygen	Odor	Nitrate	Nitrite	Ortho-phosphate
MB	Asbestos	Settable Solids	Turbidity	Biochemical Oxygen Demand	HPC	Color	Tedlars	Ammonia/TKN (unpreserved)

Section 4 - Comments / Discrepancies	
Client notified of discrepancies: Yes / No	Notified by:
Comments:	

Bin Number/ Location:	C13, AS
COC Scanned/Attached by:	BL
Samples labeled by:	BL
Sample labels reviewed by:	BL

Filled out by:	Date: 5/22/25
	Time: 1507

**SGS EXCELCHEM
Laboratories, Inc.**

**1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445**



ELAP Certificate No. : 2119

12 June 2025

Lucas Peters

Mayacma Geothermal LLC

245 E Liberty St. STE 520

Reno, NV 89501

RE: Ground Water

Work order number:2505138

Enclosed are the results of analyses for samples received by the laboratory on 05/22/25 15:04. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,



Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-3	2505138-01	Water	05/21/25 12:27	05/22/25 15:04
GW-1	2505138-02	Water	05/21/25 12:40	05/22/25 15:04

SGS Excelchem Laboratories, Inc.



Doug Selby, Technical Director

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SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

GW-3 2505138-01 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	mg/L	AIE0198	05/23/25	05/23/25	EPA 300.0	
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	
Sulfate as SO4	5.2	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	162	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	
Bicarbonate Alkalinity	162	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (@25°C)	358	1.00	uS/cm	AIE0199	05/28/25	05/28/25	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	
pH	8.37	0.100	pH Units	AIE0217	05/29/25	05/29/25	SM 4500-H+ B	Field, Z-01
Total Hardness	126	5.00	mg/L	AIE0212	05/28/25	05/28/25	SM2340C	
Total Suspended Solids	2.0	1.0	"	AIE0178	05/23/25	05/23/25	SM 2540D	
Turbidity	4.1	0.1	NTU	AIE0176	05/23/25	05/23/25	EPA 180.1	

Total Recoverable Metals

Aluminum	ND	50.0	ug/l	AIF0029	06/04/25	06/06/25	EPA 200.7	
Arsenic	ND	2.5	"	"	"	"	"	
Boron	421	25.0	"	"	"	"	"	
Calcium	33900	50.0	"	"	"	"	"	
Chromium	ND	2.5	"	"	"	"	"	
Copper	4.8	2.5	"	"	"	"	"	
Iron	1130	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	
Magnesium	9930	50.0	"	"	"	"	"	
Manganese	50.9	5.0	"	"	"	"	"	
Potassium	965	200	"	"	"	"	"	
Sodium	25000	100	"	"	"	"	"	
Zinc	13.3	5.0	"	"	"	"	"	

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

GW-1 2505138-02 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	mg/L	AIE0198	05/23/25	05/23/25	EPA 300.0	
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	
Sulfate as SO4	18.2	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	174	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	
Bicarbonate Alkalinity	174	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (@25°C)	387	1.00	uS/cm	AIE0199	05/28/25	05/28/25	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	AIE0211	05/28/25	05/28/25	SM2320B	
pH	8.35	0.100	pH Units	AIE0217	05/29/25	05/29/25	SM 4500-H+ B	Field, Z-01
Total Hardness	176	5.00	mg/L	AIE0212	05/28/25	05/28/25	SM2340C	
Total Suspended Solids	ND	1.0	"	AIE0178	05/23/25	05/23/25	SM 2540D	
Turbidity	0.2	0.1	NTU	AIE0176	05/23/25	05/23/25	EPA 180.1	

Total Recoverable Metals

Aluminum	ND	50.0	ug/l	AIF0029	06/04/25	06/06/25	EPA 200.7	
Arsenic	ND	2.5	"	"	"	"	"	
Boron	99.0	25.0	"	"	"	"	"	
Calcium	46600	50.0	"	"	"	"	"	
Chromium	ND	2.5	"	"	"	"	"	
Copper	ND	2.5	"	"	"	"	"	
Iron	56.3	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	
Magnesium	14700	50.0	"	"	"	"	"	
Manganese	113	5.0	"	"	"	"	"	
Potassium	654	200	"	"	"	"	"	
Sodium	8970	100	"	"	"	"	"	
Zinc	ND	5.0	"	"	"	"	"	

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIE0198 - EPA 300.0

Blank (AIE0198-BLK1)

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	ND	0.50	mg/L
Nitrate as Nitrogen	ND	0.11	"
Sulfate as SO4	ND	0.5	"

LCS (AIE0198-BS1)

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	10.6	0.50	mg/L	10.0	106	90-110
Nitrate as Nitrogen	2.38	0.11	"	2.26	106	90-110
Sulfate as SO4	10.5	0.5	"	10.0	105	80-120

LCS Dup (AIE0198-BSD1)

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	10.5	0.50	mg/L	10.0	105	90-110	0.918	20
Nitrate as Nitrogen	2.36	0.11	"	2.26	105	90-110	0.918	20
Sulfate as SO4	10.4	0.5	"	10.0	104	80-120	0.788	20

Matrix Spike (AIE0198-MS1)

Source: 2505133-02

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	28.7	0.50	mg/L	10.0	21.0	77.0	75-125	
Nitrate as Nitrogen	6.48	0.11	"	2.26	4.74	77.0	75-125	
Sulfate as SO4	37.9	0.5	"	10.0	31.5	64.5	75-125	QM-07

Matrix Spike Dup (AIE0198-MSD1)

Source: 2505133-02

Prepared & Analyzed: 05/23/25

Nitrate (NO3)	28.8	0.50	mg/L	10.0	21.0	78.6	75-125	0.549	20
Nitrate as Nitrogen	6.52	0.11	"	2.26	4.74	78.6	75-125	0.549	20
Sulfate as SO4	38.2	0.5	"	10.0	31.5	67.4	75-125	0.769	20

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIE0176 - EPA 180.1

Blank (AIE0176-BLK1)

Prepared & Analyzed: 05/23/25

Turbidity	ND	0.1	NTU
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Duplicate (AIE0176-DUP1)

Source: 2505138-02

Prepared & Analyzed: 05/23/25

Turbidity	0.2	0.1	NTU	0.2	12.8	20
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Batch AIE0178 - SM 2540D

Blank (AIE0178-BLK1)

Prepared & Analyzed: 05/23/25

Total Suspended Solids	ND	1.0	mg/L
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LCS (AIE0178-BS1)

Prepared & Analyzed: 05/23/25

Total Suspended Solids	179	10.0	mg/L	200	89.5	80-120
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Duplicate (AIE0178-DUP1)

Source: 2505112-08

Prepared & Analyzed: 05/23/25

Total Suspended Solids	318	20.0	mg/L	328	3.10	20
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Duplicate (AIE0178-DUP2)

Source: 2505122-06

Prepared & Analyzed: 05/23/25

Total Suspended Solids	334	10.0	mg/L	298	11.4	20
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Batch AIE0199 - EPA 120.1

Duplicate (AIE0199-DUP1)

Source: 2505137-03

Prepared & Analyzed: 05/28/25

Specific Conductance (@25°C)	104	1.00	uS/cm	105	0.574	20
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Batch AIE0211 - SM2320B

Blank (AIE0211-BLK1)

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	ND	5.00	mg/L
Carbonate Alkalinity	ND	5.00	"
Hydroxide Alkalinity	ND	5.00	"
Total Alkalinity	ND	5.00	"

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIE0211 - SM2320B

LCS (AIE0211-BS1)

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	100	5.00	mg/L				80-120			
Total Alkalinity	100	5.00	"	100		100	80-120			

LCS Dup (AIE0211-BSD1)

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	100	5.00	mg/L				80-120	0.00	20	
Total Alkalinity	100	5.00	"	100		100	80-120	0.00	20	

Duplicate (AIE0211-DUP1)

Source: 2505137-04

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	124	5.00	mg/L		122			1.63	20	
Carbonate Alkalinity	ND	5.00	"		ND				20	
Hydroxide Alkalinity	ND	5.00	"		ND				20	
Total Alkalinity	124	5.00	"		122			1.63	20	

Matrix Spike (AIE0211-MS1)

Source: 2505137-04

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	124	5.00	mg/L		122		80-120			
Total Alkalinity	224	5.00	"	100	122	102	80-120			

Matrix Spike Dup (AIE0211-MSD1)

Source: 2505137-04

Prepared & Analyzed: 05/28/25

Bicarbonate Alkalinity	124	5.00	mg/L		122		80-120	0.00	20	
Total Alkalinity	224	5.00	"	100	122	102	80-120	0.00	20	

Batch AIE0212 - SM2340C

Blank (AIE0212-BLK1)

Prepared & Analyzed: 05/28/25

Total Hardness	ND	5.00	mg/L							
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LCS (AIE0212-BS1)

Prepared & Analyzed: 05/28/25

Total Hardness	50.0	5.00	mg/L	50.0		100	80-120			
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SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIE0212 - SM2340C

LCS Dup (AIE0212-BSD1)

Prepared & Analyzed: 05/28/25

Total Hardness	50.0	5.00	mg/L	50.0	100	80-120	0.00	20
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Duplicate (AIE0212-DUP1)

Source: 2505137-01

Prepared & Analyzed: 05/28/25

Total Hardness	32.0	5.00	mg/L	32.0	0.00	20
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Matrix Spike (AIE0212-MS1)

Source: 2505137-01

Prepared & Analyzed: 05/28/25

Total Hardness	82.0	5.00	mg/L	50.0	32.0	100	75-125
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Matrix Spike Dup (AIE0212-MSD1)

Source: 2505137-01

Prepared & Analyzed: 05/28/25

Total Hardness	84.0	5.00	mg/L	50.0	32.0	104	75-125	2.41	20
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Batch AIE0217 - SM 4500-H+ B

Duplicate (AIE0217-DUP1)

Source: 2505137-04

Prepared & Analyzed: 05/29/25

pH	8.38	0.100	pH Units	8.37	0.0716	20	Field, Z-01a
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SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIF0029 - EPA 200.7

Blank (AIF0029-BLK1)

Prepared: 06/04/25 Analyzed: 06/05/25

Aluminum	ND	50.0	ug/l
Boron	ND	25.0	"
Arsenic	ND	2.5	"
Calcium	ND	50.0	"
Chromium	ND	2.5	"
Copper	ND	2.5	"
Iron	ND	10.0	"
Lead	ND	2.5	"
Magnesium	ND	50.0	"
Manganese	ND	5.0	"
Potassium	ND	200	"
Sodium	ND	100	"
Zinc	ND	5.0	"

LCS (AIF0029-BS1)

Prepared: 06/04/25 Analyzed: 06/05/25

Aluminum	490	50.0	ug/l	500	97.9	85-115
Boron	473	25.0	"	500	94.5	85-115
Arsenic	482	2.5	"	500	96.3	85-115
Calcium	527	50.0	"	500	105	85-115
Chromium	476	2.5	"	500	95.2	85-115
Copper	476	2.5	"	500	95.2	85-115
Iron	484	10.0	"	500	96.9	85-115
Lead	481	2.5	"	500	96.3	85-115
Magnesium	481	50.0	"	500	96.2	85-115
Manganese	478	5.0	"	500	95.5	85-115
Potassium	4830	200	"	5000	96.5	85-115
Sodium	493	100	"	500	98.6	85-115
Zinc	481	5.0	"	500	96.2	85-115

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AIF0029 - EPA 200.7

LCS Dup (AIF0029-BSD1)

Prepared: 06/04/25 Analyzed: 06/05/25

Boron	477	25.0	ug/l	500		95.4	85-115	0.969	20	
Aluminum	499	50.0	"	500		99.8	85-115	1.94	20	
Arsenic	508	2.5	"	500		102	85-115	5.45	20	
Calcium	529	50.0	"	500		106	85-115	0.473	20	
Chromium	501	2.5	"	500		100	85-115	5.10	20	
Copper	500	2.5	"	500		100	85-115	5.00	20	
Iron	512	10.0	"	500		102	85-115	5.62	20	
Lead	507	2.5	"	500		101	85-115	5.10	20	
Magnesium	504	50.0	"	500		101	85-115	4.77	20	
Manganese	504	5.0	"	500		101	85-115	5.46	20	
Potassium	4930	200	"	5000		98.6	85-115	2.09	20	
Sodium	509	100	"	500		102	85-115	3.09	20	
Zinc	507	5.0	"	500		101	85-115	5.26	20	

Matrix Spike (AIF0029-MS1)

Source: 2505137-02

Prepared: 06/04/25 Analyzed: 06/05/25

Aluminum	679	50.0	ug/l	500	154	105	75-125			
Boron	514	25.0	"	500	20.5	98.8	75-125			
Arsenic	481	2.5	"	500	ND	96.2	75-125			
Calcium	7790	50.0	"	500	7500	58.9	75-125			QM-05
Chromium	473	2.5	"	500	1.20	94.4	75-125			
Copper	478	2.5	"	500	0.300	95.5	75-125			
Iron	655	10.0	"	500	176	95.9	75-125			
Lead	466	2.5	"	500	0.500	93.1	75-125			
Magnesium	6810	50.0	"	500	6480	65.0	75-125			QM-05
Manganese	487	5.0	"	500	10.1	95.3	75-125			
Potassium	6470	200	"	5000	1500	99.4	75-125			
Sodium	5970	100	"	500	5660	60.8	75-125			QM-05
Zinc	475	5.0	"	500	1.40	94.7	75-125			

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIF0029 - EPA 200.7

Matrix Spike Dup (AIF0029-MSD1)		Source: 2505137-02		Prepared: 06/04/25 Analyzed: 06/05/25						
Boron	514	25.0	ug/l	500	20.5	98.6	75-125	0.156	25	
Aluminum	682	50.0	"	500	154	106	75-125	0.456	25	
Arsenic	519	2.5	"	500	ND	104	75-125	7.56	25	
Calcium	7890	50.0	"	500	7500	78.2	75-125	1.23	25	
Chromium	509	2.5	"	500	1.20	102	75-125	7.25	25	
Copper	511	2.5	"	500	0.300	102	75-125	6.75	25	
Iron	695	10.0	"	500	176	104	75-125	5.82	25	
Lead	501	2.5	"	500	0.500	100	75-125	7.28	25	
Magnesium	6880	50.0	"	500	6480	79.2	75-125	1.03	25	
Manganese	522	5.0	"	500	10.1	102	75-125	7.06	25	
Potassium	6500	200	"	5000	1500	100	75-125	0.493	25	
Sodium	6050	100	"	500	5660	78.4	75-125	1.47	25	
Zinc	511	5.0	"	500	1.40	102	75-125	7.27	25	

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

Notes and Definitions

Z-01a Corrected Temperature: 23.4 degrees celsius

Z-01 Corrected Temperature: 23.3 degrees celsius

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Field This analyte was analyzed outside of the EPA recommended hold time of 15 minutes and should be analyzed in the field.

ND Analyte not detected at reporting limit.

NR Not reported

SGS Excelchem Laboratories, Inc.

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Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17

		1135 West Sunset Blvd., STE A, Rocklin, CA 95765 Phone (916) 543-4445		CHAIN-OF-CUSTODY-RECORD																																													
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Doug Selby, Technical Director

SGS Excelchem Laboratories, Inc.

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
06/12/25 15:17



SGS - Rocklin
Sample Integrity
FN: F-ROC-SC-001-00
Rev. Date: 11/01/2023
Page 1 of 1

Sample Integrity

WORK ORDER: 2505138

Date Received: 5/22/25

Company Name: MAYACMA GEOTHERM
New Client: ☒ Y ☐ N

Section 1 - Sample Arrival Information

Sample Transport: ONTRAC UPS USPS ☒ WALKER EXCELCHEM Courier Fed-Ex Other: _____
Transported In: ☒ Ice Chest ☐ Box ☐ Hand
Packing materials: Bubble Wrap ☐ Foam ☐ Packing Peanuts ☐ Paper ☐ Other: _____
Has chilling process begun? ☒ N Samples Received: Chilled to Touch / Ambient / ☒ On Ice
Temperature of Samples (°C): -0.9/-1.2 Ice Chest Temperature(s) (°C): -1.4/-1.7
Thermometer ID: DT-19 CF (°C): -0.3

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	☒			
Did all bottle labels agree with COC?	☒			
Were correct containers used for the tests requested?	☒			
Were correct preservations used for the tests requested?	☒			
Was a sufficient amount of sample sent for tests indicated?	☒			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			☒	
Is there head space in the VOA vials? (Volatile Methods Only)			☒	

Section 3 - COC Information

	Yes	No	Comments	Yes	No
COC Received	☒			Analysis Requested	☒
Date Sampled	☒			Samples arrived within holding time	☒
Time Sampled	☒			Hold times less than 72 hours	☒
Sample ID	☒			Client Name	☒
Rush Turn Around Time		☒		Client Contact Information	☒

SHORT HOLD LIST (<72 hours)

pH	Chlorine	Corrosivity	Coliform	Dissolved Oxygen	Odor	Nitrate	Nitrite	Ortho-phosphate
MB	Asbestos	Settable Solids	Turbidity	Biochemical Oxygen Demand	HPC	Color	Tedlars	Ammonia/TKN (unpreserved)
As								

Section 4 - Comments / Discrepancies

Client notified of discrepancies: Yes / No Notified by:
Comments:

Bin Number/ Location:	C4, AS
COC Scanned/Attached by:	BL
Samples labeled by:	BL
Sample labels reviewed by:	BL

Filled out by:

[Signature] BL SGS

Date: 5/22/25

Time: 1507

[Signature]

SGS Rocklin

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445



ELAP Certificate No. : 2119

10 September 2025

Lucas Peters

Mayacma Geothermal LLC

245 E Liberty St. STE 520

Reno, NV 89501

RE: Ground Water

Work order number:2508139

Enclosed are the results of analyses for samples received by the laboratory on 08/25/25 14:34. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in grey ink that reads "Doug Selby". The signature is fluid and cursive, with the first and last names being more prominent.

Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-1	2508139-01	Water	08/25/25 10:32	08/25/25 14:34
GW-3	2508139-02	Water	08/25/25 10:08	08/25/25 14:34

SGS Rocklin



Doug Selby, Technical Director

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SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

GW-1 2508139-01 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	mg/L	AIH0232	08/26/25	08/26/25	EPA 300.0	
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	
Sulfate as SO4	20.7	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	164	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
Bicarbonate Alkalinity	164	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (@25°C)	380	1.00	uS/cm	AIH0202	08/26/25	08/26/25	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
pH	8.06	0.100	pH Units	AIH0227	08/26/25	08/26/25	SM 4500-H+ B	Field, Z-01a
Total Hardness	182	5.00	mg/L	AIH0228	08/26/25	08/26/25	SM2340C	
Total Suspended Solids	ND	1.1	"	AIH0233	08/28/25	08/28/25	SM 2540D	
Turbidity	0.2	0.1	NTU	AIH0229	08/26/25	08/26/25	EPA 180.1	

Total Recoverable Metals

Arsenic	ND	2.5	ug/l	AIH0016	08/28/25	08/29/25	EPA 200.7	
Boron	99.3	25.0	"	"	"	"	"	
Calcium	47600	500	"	"	"	09/04/25	"	R-06
Copper	ND	2.5	"	"	"	08/29/25	"	
Iron	38.3	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	
Magnesium	14800	50.0	"	"	"	"	"	
Manganese	111	5.0	"	"	"	"	"	
Sodium	8120	100	"	"	"	09/04/25	"	
Zinc	ND	5.0	"	"	"	08/29/25	"	

SGS Rocklin

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

GW-3 2508139-02 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	mg/L	AIH0232	08/26/25	08/26/25	EPA 300.0	
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	
Sulfate as SO4	4.1	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	154	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
Bicarbonate Alkalinity	154	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (@25°C)	336	1.00	uS/cm	AIH0202	08/26/25	08/26/25	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
pH	8.10	0.100	pH Units	AIH0227	08/26/25	08/26/25	SM 4500-H+ B	Field, Z-01b
Total Hardness	124	5.00	mg/L	AIH0228	08/26/25	08/26/25	SM2340C	
Total Suspended Solids	8.0	1.1	"	AIH0233	08/28/25	08/28/25	SM 2540D	
Turbidity	2.9	0.1	NTU	AIH0229	08/26/25	08/26/25	EPA 180.1	

Total Recoverable Metals

Arsenic	ND	2.5	ug/l	AIH0016	08/28/25	08/29/25	EPA 200.7	
Boron	420	25.0	"	"	"	"	"	
Calcium	32100	500	"	"	"	09/04/25	"	R-06
Copper	3.6	2.5	"	"	"	08/29/25	"	
Iron	4340	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	
Magnesium	9900	50.0	"	"	"	"	"	
Manganese	60.1	5.0	"	"	"	"	"	
Sodium	23200	100	"	"	"	09/04/25	"	
Zinc	33.0	5.0	"	"	"	08/29/25	"	

SGS Rocklin

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIH0232 - EPA 300.0

Blank (AIH0232-BLK1)

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	ND	0.50	mg/L
Nitrate as Nitrogen	ND	0.11	"
Sulfate as SO4	ND	0.5	"

LCS (AIH0232-BS1)

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	9.46	0.50	mg/L	10.0	94.6	90-110
Nitrate as Nitrogen	2.14	0.11	"	2.26	94.6	90-110
Sulfate as SO4	10.4	0.5	"	10.0	104	80-120

LCS Dup (AIH0232-BSD1)

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	9.43	0.50	mg/L	10.0	94.3	90-110	0.343	20
Nitrate as Nitrogen	2.13	0.11	"	2.26	94.3	90-110	0.343	20
Sulfate as SO4	10.4	0.5	"	10.0	104	80-120	0.403	20

Matrix Spike (AIH0232-MS1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	9.63	0.50	mg/L	10.0	0.60	90.2	75-125
Nitrate as Nitrogen	2.18	0.11	"	2.26	0.14	90.2	75-125
Sulfate as SO4	10.9	0.5	"	10.0	1.0	98.4	75-125

Matrix Spike Dup (AIH0232-MSD1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	9.72	0.50	mg/L	10.0	0.60	91.1	75-125	0.902	20
Nitrate as Nitrogen	2.19	0.11	"	2.26	0.14	91.1	75-125	0.902	20
Sulfate as SO4	11.0	0.5	"	10.0	1.0	99.8	75-125	1.28	20

SGS Rocklin

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SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIH0202 - EPA 120.1

Duplicate (AIH0202-DUP1)

Source: 2508105-03

Prepared & Analyzed: 08/26/25

Specific Conductance (@25°C)	454	1.00	uS/cm	455		0.220	20
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Batch AIH0207 - SM2320B

Blank (AIH0207-BLK1)

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	ND	5.00	mg/L				
Carbonate Alkalinity	ND	5.00	"				
Hydroxide Alkalinity	ND	5.00	"				
Total Alkalinity	ND	5.00	"				

LCS (AIH0207-BS1)

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	ND	5.00	mg/L			80-120	
Total Alkalinity	100	5.00	"	100	100	80-120	

LCS Dup (AIH0207-BSD1)

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	ND	5.00	mg/L			80-120	20
Total Alkalinity	102	5.00	"	100	102	80-120	1.98 20

Duplicate (AIH0207-DUP1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	56.0	5.00	mg/L	56.0		0.00	20
Carbonate Alkalinity	ND	5.00	"	ND			20
Hydroxide Alkalinity	ND	5.00	"	ND			20
Total Alkalinity	56.0	5.00	"	56.0		0.00	20

Matrix Spike (AIH0207-MS1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	48.0	5.00	mg/L	56.0		80-120	
Total Alkalinity	148	5.00	"	100	56.0 92.0	80-120	

SGS Rocklin

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIH0207 - SM2320B

Matrix Spike Dup (AIH0207-MSD1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	56.0	5.00	mg/L		56.0		80-120	15.4	20	
Total Alkalinity	160	5.00	"	100	56.0	104	80-120	7.79	20	

Batch AIH0227 - SM 4500-H+ B

Duplicate (AIH0227-DUP1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

pH	7.97	0.100	pH Units		7.95			0.276	20	Field, Z-01
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Batch AIH0228 - SM2340C

Blank (AIH0228-BLK1)

Prepared & Analyzed: 08/26/25

Total Hardness	ND	5.00	mg/L							
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LCS (AIH0228-BS1)

Prepared & Analyzed: 08/26/25

Total Hardness	54.0	5.00	mg/L	50.0		108	80-120			
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LCS Dup (AIH0228-BSD1)

Prepared & Analyzed: 08/26/25

Total Hardness	50.0	5.00	mg/L	50.0		100	80-120	7.69	20	
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Duplicate (AIH0228-DUP1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Total Hardness	122	5.00	mg/L		122			0.00	20	
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Matrix Spike (AIH0228-MS1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Total Hardness	180	5.00	mg/L	50.0	122	116	75-125			
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Matrix Spike Dup (AIH0228-MSD1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Total Hardness	180	5.00	mg/L	50.0	122	116	75-125	0.00	20	
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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIH0229 - EPA 180.1

Blank (AIH0229-BLK1)

Prepared & Analyzed: 08/26/25

Turbidity	ND	0.1	NTU
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Duplicate (AIH0229-DUP1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

Turbidity	1.3	0.1	NTU	1.3	0.784	20
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Batch AIH0233 - SM 2540D

Blank (AIH0233-BLK1)

Prepared & Analyzed: 08/28/25

Total Suspended Solids	ND	1.0	mg/L
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LCS (AIH0233-BS1)

Prepared & Analyzed: 08/28/25

Total Suspended Solids	194	10.0	mg/L	200	97.0	80-120
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Duplicate (AIH0233-DUP1)

Source: 2508142-08

Prepared & Analyzed: 08/28/25

Total Suspended Solids	312	20.0	mg/L	292	6.49	20
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Duplicate (AIH0233-DUP2)

Source: 2508144-06

Prepared & Analyzed: 08/28/25

Total Suspended Solids	314	20.0	mg/L	324	3.13	20
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SGS Rocklin

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AII0016 - EPA 200.7

Blank (AII0016-BLK1)

Prepared: 08/28/25 Analyzed: 08/29/25

Boron	ND	25.0	ug/l
Arsenic	ND	2.5	"
Calcium	ND	50.0	"
Copper	ND	2.5	"
Iron	ND	10.0	"
Lead	ND	2.5	"
Magnesium	ND	50.0	"
Manganese	ND	5.0	"
Sodium	ND	100	"
Zinc	ND	5.0	"

LCS (AII0016-BS1)

Prepared: 08/28/25 Analyzed: 08/29/25

Boron	471	25.0	ug/l	500	94.1	85-115
Arsenic	489	2.5	"	500	97.8	85-115
Calcium	513	50.0	"	500	103	85-115
Copper	490	2.5	"	500	98.1	85-115
Iron	501	10.0	"	500	100	85-115
Lead	497	2.5	"	500	99.5	85-115
Magnesium	495	50.0	"	500	99.1	85-115
Manganese	495	5.0	"	500	99.0	85-115
Sodium	510	100	"	500	102	85-115
Zinc	493	5.0	"	500	98.6	85-115

LCS Dup (AII0016-BSD1)

Prepared: 08/28/25 Analyzed: 08/29/25

Boron	467	25.0	ug/l	500	93.4	85-115	0.832	20
Arsenic	493	2.5	"	500	98.7	85-115	0.937	20
Calcium	514	50.0	"	500	103	85-115	0.136	20
Copper	493	2.5	"	500	98.7	85-115	0.590	20
Iron	503	10.0	"	500	101	85-115	0.418	20
Lead	501	2.5	"	500	100	85-115	0.701	20
Magnesium	499	50.0	"	500	99.8	85-115	0.744	20
Manganese	496	5.0	"	500	99.3	85-115	0.343	20
Sodium	499	100	"	500	99.8	85-115	2.20	20
Zinc	497	5.0	"	500	99.3	85-115	0.768	20

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SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AII0016 - EPA 200.7

Matrix Spike (AII0016-MS1)		Source: 2508139-01		Prepared: 08/28/25		Analyzed: 08/29/25				
Boron	612	25.0	ug/l	500	99.3	102	75-125			
Arsenic	516	2.5	"	500	ND	103	75-125			
Calcium	48900	500	"	500	47600	263	75-125			QM-05, R-06
Copper	508	2.5	"	500	0.200	101	75-125			
Iron	544	10.0	"	500	38.3	101	75-125			
Lead	488	2.5	"	500	ND	97.5	75-125			
Magnesium	15300	50.0	"	500	14800	107	75-125			
Manganese	606	5.0	"	500	111	99.0	75-125			
Sodium	8930	100	"	500	8120	162	75-125			QM-05
Zinc	494	5.0	"	500	ND	98.7	75-125			

Matrix Spike Dup (AII0016-MSD1)		Source: 2508139-01		Prepared: 08/28/25		Analyzed: 08/29/25				
Boron	602	25.0	ug/l	500	99.3	100	75-125	1.63	25	
Arsenic	510	2.5	"	500	ND	102	75-125	1.03	25	
Calcium	49100	500	"	500	47600	306	75-125	0.439	25	QM-05, R-06
Copper	502	2.5	"	500	0.200	100	75-125	1.17	25	
Iron	535	10.0	"	500	38.3	99.4	75-125	1.50	25	
Lead	482	2.5	"	500	ND	96.5	75-125	1.11	25	
Magnesium	15500	50.0	"	500	14800	144	75-125	1.23	25	QM-05
Manganese	601	5.0	"	500	111	98.0	75-125	0.779	25	
Sodium	8670	100	"	500	8120	109	75-125	3.02	25	
Zinc	487	5.0	"	500	ND	97.5	75-125	1.30	25	

SGS Rocklin

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SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

Notes and Definitions

Z-01b Corrected Temp in Celsius: 22.7
Z-01a Corrected Temp in Celsius: 22.6
Z-01 Corrected Temp in Celsius: 22.5
R-06 This sample was diluted due to high analyte concentration, resulting in an elevated reporting limit.
QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Field This analyte was analyzed outside of the EPA recommended hold time of 15 minutes and should be analyzed in the field.
ND Analyte not detected at reporting limit.
NR Not reported

SGS Rocklin

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Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40

Report Results To:	Project Number: Ground Water		Invoice Attention: Accounts Payable PO#		Quote #		
Company: Mayacma Geothermal LLC		Company: Mayacma Geothermal LLC					
Mailing Address: 245 E Liberty St STE 520		Mailing Address: 245 E Liberty St STE 520					
City, State, Zip: Reno, NV 89501		City, State, Zip: Reno, NV 89501					
Phone: 585-752-6821 Email / Fax: Lucas@Openmountainenergy.com		Phone: Email / Fax: Accounting@openmountainenergy.com					
Sampled by: Lucas Peters Signature: Lucas Peters		ANALYSES REQUESTED					
I attest to the validity and authenticity of the sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time is considered fraud and may be grounds for legal action.		For both samples: See quote 2025 896, minus the TCF Metals Qty 10 ICP (XMETICP10), EPA 200.7 As, B, Ca, Cu, Fe, Pb, Mg, Mn, Na, Zn Metals Digestion (METDIG), NA pH (PH), SM20 4500H B Specific Conductance (SCON), SM2510B Alkalinity, Carbonate, Bicarbonate (XCARBICALK), NA Total Suspended Solids (TSS), SM 2540D Turbidity (TURB), EPA 180.1 Hydroxide Alkalinity (OHALK), SM 2320B-2011 Hardness, Total (HRD), SM 2340C Nitrogen, Nitrate by Ion Chromatography (NO3OIC300), EPA 300.0 Sulfate by Ion Chromatography (SO4IC300), EPA 300.0					
Standard: ☒ Standard TAT 10 Business Days. Note that some tests vary. Rush Same Day: ☐ 3 Day: ☐ Other (specify): _____ 1 Day: ☐ 4 Day: ☐ 2 Day: ☐ 5 Day: ☐ Rush results will be issued after 4:00 p.m. NOTE: A Rush Surcharge is applied for rush samples		Other Pertinent Information / Special Instructions 2508139 BIN C26					
Date Sampled	Time Sampled	Sample Identification	Lab No.	Comp. Grab	Matrix*	Preservative**	
8/25/25	10:32	GW-1			GW		
✓	10:08	GW-3			GW		
Signature		Print Name		Company		Date	Time
Lucas Peters		LUCAS PETERS		Mayacma SG5		8/25/25	14:34
Received By: [Signature]		BRYAN LEE				8/25/25	14:34
Relinquished By:							
Received By:							
Relinquished By:							
Received By:							
Authorized By:							
Authorization is required to process samples. This obligates your organization for service fees. SGS Standard T & C's or other written agreement applies. If collections or legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees.							Samples are discarded 30 days after results are reported unless other arrangements are made and storage fees may apply. The analytical results associated with this COC apply only to these samples as they are received by the laboratory. The liability of the laboratory is limited to the amount paid for the report.
Matrix* DW=Drinking Water, WW=Waste Water, GW=Ground Water, SW=Surface Water, SS-Soil, S-Solid, OT=Other Preservative** 1=H ₂ SO ₄ , 2=HNO ₃ , 3=HCl, 4=NaOH, 5=Na ₂ S ₂ O ₈ , 6=None, 7=Other Container*** P-Plastic, G-Glass, V-Voa Vial, OT=Other							

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:40



SGS - Rocklin
Sample Integrity
FN: F-ROC-SC-001-00
Rev. Date: 11/01/2023
Page 1 of 1

Sample Integrity

WORK ORDER: 2508139

Date Received: 8/25/25

Company Name: MAYACMA
New Client: Y (N)

Section 1 – Sample Arrival Information	
Sample Transport:	ONTRAC UPS USPS <u>Walk-In</u> EXCELCHEM Courier Fed-Ex Other: _____
Transported In:	Ice Chest Box Hand
Packing materials:	Bubble Wrap Foam Packing Peanuts Paper Other: _____
Has chilling process begun?	<u>Y</u> N Samples Received: Chilled to Touch / Ambient / <u>On Ice</u>
Temperature of Samples (°C):	<u>89/1.6</u> Ice Chest Temperature(s) (°C): <u>-0.6 / -0.9</u>
Thermometer ID:	<u>DT-18</u> CF (°C): <u>-0.3</u> (Correct Temp: *)

Section 2 – Bottle/Analysis Info.		Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<u>Y</u>				
Did all bottle labels agree with COC?	<u>Y</u>				
Were correct containers used for the tests requested?	<u>Y</u>				
Were correct preservations used for the tests requested?	<u>Y</u>				
Was a sufficient amount of sample sent for tests indicated?	<u>Y</u>				
Were bubbles present in VOA Vials?: (Volatile Methods Only)	<u>Y</u>				
Is there head space in the VOA vials? (Volatile Methods Only)	<u>Y</u>				

Section 3– COC Information		Yes	No	Comments	Yes	No
COC Received	<u>Y</u>			Analysis Requested	<u>Y</u>	
Date Sampled	<u>Y</u>			Samples arrived within holding time	<u>Y</u>	
Time Sampled	<u>Y</u>			Hold times less than 72 hours	<u>Y</u>	
Sample ID	<u>Y</u>			Client Name	<u>Y</u>	
Rush Turn Around Time	<u>Y</u>			Client Contact Information	<u>Y</u>	

SHORT HOLD LIST (<72 hours)							
<u>MB</u>	Chlorine	Corrosivity	<u>Coliform</u>	Dissolved Oxygen	Odor	Nitrate	Nitrite
As	Asbestos	Settable Solids	Turbidity	Biochemical Oxygen Demand	HPC	Color	Tedlars
							Ortho-phosphate
							Ammonia/TKN (unpreserved)

Section 4 – Comments / Discrepancies	
Client notified of discrepancies:	Yes / No Notified by:
Comments:	

Bin Number/ Location:	<u>C26</u>
COC Scanned/Attached by:	<u>BL</u>
Samples labeled by:	<u>BL</u>
Sample labels reviewed by:	<u>BL</u>

Filled out by:	<u>SGS</u>	Date:	<u>8/25/25</u>
		Time:	<u>1429</u>

SGS Rocklin

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Doug Selby

Doug Selby, Technical Director

SGS Rocklin

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445



10 September 2025

Lucas Peters

Mayacma Geothermal LLC

245 E Liberty St. STE 520

Reno, NV 89501

RE: Surface Water

Work order number:2508138

ELAP Certificate No. : 2119

Enclosed are the results of analyses for samples received by the laboratory on 08/25/25 14:34. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in grey ink that reads "Doug Selby". The signature is fluid and cursive, with the first and last names being more prominent.

Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-6	2508138-01	Water	08/25/25 08:56	08/25/25 14:34
SW-8	2508138-02	Water	08/25/25 11:09	08/25/25 14:34
SW-9	2508138-03	Water	08/25/25 10:44	08/25/25 14:34
SW-10	2508138-04	Water	08/25/25 10:58	08/25/25 14:34

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Doug Selby, Technical Director

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SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

SW-6 2508138-01 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	0.60	0.50	mg/L	AIH0232	08/26/25	08/26/25	EPA 300.0	
Nitrate as Nitrogen	0.14	0.11	"	"	"	"	"	
Sulfate as SO4	1.0	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	126	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
Bicarbonate Alkalinity	126	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (@25°C)	257	1.00	uS/cm	AIH0202	08/26/25	08/26/25	EPA 120.1	
Dissolved Oxygen	9.2	0.5	PPM	AIH0230	08/26/25	08/26/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
pH	8.18	0.100	pH Units	AIH0227	08/26/25	08/26/25	SM 4500-H+ B	Field, Z-01
Coliform, total	2420	1.00	MPN/100m l	AIH0226	08/25/25	08/25/25	SM 9223-B	
E. Coli	44.3	1.00	"	"	"	"	"	
Total Hardness	122	5.00	mg/L	AIH0228	08/26/25	08/26/25	SM2340C	
Total Suspended Solids	1.5	1.0	"	AIH0233	08/28/25	08/28/25	SM 2540D	
Turbidity	0.4	0.1	NTU	AIH0229	08/26/25	08/26/25	EPA 180.1	

Total Recoverable Metals

Arsenic	ND	2.5	ug/l	AIH0016	08/28/25	08/29/25	EPA 200.7	
Boron	74.7	25.0	"	"	"	"	"	
Calcium	12900	50.0	"	"	"	"	"	
Chromium	ND	2.5	"	"	"	"	"	
Copper	ND	2.5	"	"	"	"	"	
Iron	55.2	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	
Magnesium	22300	50.0	"	"	"	"	"	
Manganese	8.5	5.0	"	"	"	"	"	
Mercury	ND	0.200	"	AIH0056	08/27/25	09/09/25	EPA 245.1	
Sodium	6390	100	"	AIH0016	08/28/25	09/10/25	EPA 200.7	
Vanadium	ND	2.5	"	"	"	08/29/25	"	
Zinc	ND	5.0	"	"	"	"	"	

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Doug Selby, Technical Director

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

SW-8 2508138-02 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	mg/L	AIH0232	08/26/25	08/26/25	EPA 300.0	
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	
Sulfate as SO4	ND	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	48.0	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
Bicarbonate Alkalinity	48.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (@25°C)	101	1.00	uS/cm	AIH0202	08/26/25	08/26/25	EPA 120.1	
Dissolved Oxygen	9.8	0.5	PPM	AIH0230	08/26/25	08/26/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
pH	7.94	0.100	pH Units	AIH0227	08/26/25	08/26/25	SM 4500-H+ B	Field, Z-01
Coliform, total	1730	1.00	MPN/100m l	AIH0226	08/25/25	08/25/25	SM 9223-B	
E. Coli	54.6	1.00	"	"	"	"	"	
Total Hardness	38.0	5.00	mg/L	AIH0228	08/26/25	08/26/25	SM2340C	
Total Suspended Solids	1.5	1.0	"	AIH0233	08/28/25	08/28/25	SM 2540D	
Turbidity	1.1	0.1	NTU	AIH0229	08/26/25	08/26/25	EPA 180.1	

Total Recoverable Metals

Aluminum	88.8	50.0	ug/l	AIH0016	08/28/25	08/29/25	EPA 200.7	
Arsenic	ND	2.5	"	"	"	"	"	
Boron	31.1	25.0	"	"	"	"	"	
Calcium	7480	50.0	"	"	"	"	"	
Chromium	ND	2.5	"	"	"	"	"	
Copper	5.0	2.5	"	"	"	"	"	
Iron	109	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	
Magnesium	5110	50.0	"	"	"	"	"	
Manganese	ND	5.0	"	"	"	"	"	
Mercury	ND	0.200	"	AIH0056	08/27/25	09/09/25	EPA 245.1	
Sodium	5750	100	"	AIH0016	08/28/25	09/10/25	EPA 200.7	
Vanadium	ND	2.5	"	"	"	08/29/25	"	
Zinc	ND	5.0	"	"	"	"	"	

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Doug Selby, Technical Director

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

SW-9 2508138-03 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	mg/L	AIH0232	08/26/25	08/26/25	EPA 300.0	
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	
Sulfate as SO4	0.7	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	28.0	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
Bicarbonate Alkalinity	28.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (@25°C)	62.0	1.00	uS/cm	AIH0202	08/26/25	08/26/25	EPA 120.1	
Dissolved Oxygen	9.6	0.5	PPM	AIH0230	08/26/25	08/26/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
pH	7.53	0.100	pH Units	AIH0227	08/26/25	08/26/25	SM 4500-H+ B	Field, Z-01
Coliform, total	1730	1.00	MPN/100m l	AIH0226	08/25/25	08/25/25	SM 9223-B	
E. Coli	23.1	1.00	"	"	"	"	"	
Total Hardness	20.0	5.00	mg/L	AIH0228	08/26/25	08/26/25	SM2340C	
Total Suspended Solids	ND	1.0	"	AIH0233	08/28/25	08/28/25	SM 2540D	
Turbidity	0.4	0.1	NTU	AIH0229	08/26/25	08/26/25	EPA 180.1	

Total Recoverable Metals

Aluminum	ND	50.0	ug/l	AIH0016	08/28/25	08/29/25	EPA 200.7	
Arsenic	ND	2.5	"	"	"	"	"	
Boron	55.8	25.0	"	"	"	"	"	
Calcium	4420	50.0	"	"	"	"	"	
Chromium	ND	2.5	"	"	"	"	"	
Copper	ND	2.5	"	"	"	"	"	
Iron	44.1	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	
Magnesium	2320	50.0	"	"	"	"	"	
Manganese	ND	5.0	"	"	"	"	"	
Mercury	ND	0.200	"	AIH0056	08/27/25	09/09/25	EPA 245.1	
Sodium	4490	100	"	AIH0016	08/28/25	09/10/25	EPA 200.7	
Vanadium	ND	2.5	"	"	"	08/29/25	"	
Zinc	ND	5.0	"	"	"	"	"	

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Doug Selby, Technical Director

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

SW-10 2508138-04 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	mg/L	AIH0232	08/26/25	08/26/25	EPA 300.0	
Nitrate as Nitrogen	ND	0.11	"	"	"	"	"	
Sulfate as SO4	ND	0.5	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	56.0	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
Bicarbonate Alkalinity	56.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (@25°C)	112	1.00	uS/cm	AIH0202	08/26/25	08/26/25	EPA 120.1	
Dissolved Oxygen	11.0	0.5	PPM	AIH0230	08/26/25	08/26/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	mg/L	AIH0207	08/26/25	08/26/25	SM2320B	
pH	7.95	0.100	pH Units	AIH0227	08/26/25	08/26/25	SM 4500-H+ B	Field, Z-01b
Coliform, total	756	1.00	MPN/100m l	AIH0226	08/25/25	08/25/25	SM 9223-B	
E. Coli	46.4	1.00	"	"	"	"	"	
Total Hardness	44.0	5.00	mg/L	AIH0228	08/26/25	08/26/25	SM2340C	
Total Suspended Solids	1.2	1.0	"	AIH0233	08/28/25	08/28/25	SM 2540D	
Turbidity	1.3	0.1	NTU	AIH0229	08/26/25	08/26/25	EPA 180.1	

Total Recoverable Metals

Aluminum	95.1	50.0	ug/l	AIH0016	08/28/25	08/29/25	EPA 200.7	
Arsenic	ND	2.5	"	"	"	"	"	
Boron	ND	25.0	"	"	"	"	"	
Calcium	7950	50.0	"	"	"	"	"	
Chromium	ND	2.5	"	"	"	"	"	
Copper	ND	2.5	"	"	"	"	"	
Iron	119	10.0	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	
Magnesium	5720	50.0	"	"	"	"	"	
Manganese	ND	5.0	"	"	"	"	"	
Mercury	ND	0.200	"	AIH0056	08/27/25	09/09/25	EPA 245.1	
Sodium	5810	100	"	AIH0016	08/28/25	09/10/25	EPA 200.7	
Vanadium	ND	2.5	"	"	"	08/29/25	"	
Zinc	ND	5.0	"	"	"	"	"	

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Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIH0232 - EPA 300.0

Blank (AIH0232-BLK1)

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	ND	0.50	mg/L
Nitrate as Nitrogen	ND	0.11	"
Sulfate as SO4	ND	0.5	"

LCS (AIH0232-BS1)

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	9.46	0.50	mg/L	10.0	94.6	90-110
Nitrate as Nitrogen	2.14	0.11	"	2.26	94.6	90-110
Sulfate as SO4	10.4	0.5	"	10.0	104	80-120

LCS Dup (AIH0232-BSD1)

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	9.43	0.50	mg/L	10.0	94.3	90-110	0.343	20
Nitrate as Nitrogen	2.13	0.11	"	2.26	94.3	90-110	0.343	20
Sulfate as SO4	10.4	0.5	"	10.0	104	80-120	0.403	20

Matrix Spike (AIH0232-MS1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	9.63	0.50	mg/L	10.0	0.60	90.2	75-125
Nitrate as Nitrogen	2.18	0.11	"	2.26	0.14	90.2	75-125
Sulfate as SO4	10.9	0.5	"	10.0	1.0	98.4	75-125

Matrix Spike Dup (AIH0232-MSD1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Nitrate (NO3)	9.72	0.50	mg/L	10.0	0.60	91.1	75-125	0.902	20
Nitrate as Nitrogen	2.19	0.11	"	2.26	0.14	91.1	75-125	0.902	20
Sulfate as SO4	11.0	0.5	"	10.0	1.0	99.8	75-125	1.28	20

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIH0202 - EPA 120.1

Duplicate (AIH0202-DUP1)

Source: 2508105-03

Prepared & Analyzed: 08/26/25

Specific Conductance (@25°C)	454	1.00	uS/cm	455		0.220	20
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Batch AIH0207 - SM2320B

Blank (AIH0207-BLK1)

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	ND	5.00	mg/L				
Carbonate Alkalinity	ND	5.00	"				
Hydroxide Alkalinity	ND	5.00	"				
Total Alkalinity	ND	5.00	"				

LCS (AIH0207-BS1)

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	ND	5.00	mg/L			80-120	
Total Alkalinity	100	5.00	"	100	100	80-120	

LCS Dup (AIH0207-BSD1)

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	ND	5.00	mg/L			80-120	20
Total Alkalinity	102	5.00	"	100	102	80-120	1.98 20

Duplicate (AIH0207-DUP1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	56.0	5.00	mg/L	56.0		0.00	20
Carbonate Alkalinity	ND	5.00	"	ND			20
Hydroxide Alkalinity	ND	5.00	"	ND			20
Total Alkalinity	56.0	5.00	"	56.0		0.00	20

Matrix Spike (AIH0207-MS1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	48.0	5.00	mg/L	56.0		80-120	
Total Alkalinity	148	5.00	"	100	56.0 92.0	80-120	

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Mayacma Geothermal LLC	Project: Surface Water	
245 E Liberty St. STE 520	Project Number: Surface Water	Date Reported: 09/10/25 14:39
Reno, NV 89501	Project Manager: Lucas Peters	

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIH0207 - SM2320B

Matrix Spike Dup (AIH0207-MSD1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

Bicarbonate Alkalinity	56.0	5.00	mg/L		56.0		80-120	15.4	20	
Total Alkalinity	160	5.00	"	100	56.0	104	80-120	7.79	20	

Batch AIH0227 - SM 4500-H+ B

Duplicate (AIH0227-DUP1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

pH	7.97	0.100	pH Units		7.95			0.276	20	Field, Z-01a
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Batch AIH0228 - SM2340C

Blank (AIH0228-BLK1)

Prepared & Analyzed: 08/26/25

Total Hardness	ND	5.00	mg/L							
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LCS (AIH0228-BS1)

Prepared & Analyzed: 08/26/25

Total Hardness	54.0	5.00	mg/L	50.0		108	80-120			
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LCS Dup (AIH0228-BSD1)

Prepared & Analyzed: 08/26/25

Total Hardness	50.0	5.00	mg/L	50.0		100	80-120	7.69	20	
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Duplicate (AIH0228-DUP1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Total Hardness	122	5.00	mg/L		122			0.00	20	
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Matrix Spike (AIH0228-MS1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Total Hardness	180	5.00	mg/L	50.0	122	116	75-125			
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Matrix Spike Dup (AIH0228-MSD1)

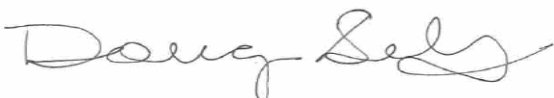
Source: 2508138-01

Prepared & Analyzed: 08/26/25

Total Hardness	180	5.00	mg/L	50.0	122	116	75-125	0.00	20	
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Mayacma Geothermal LLC 245 E Liberty St. STE 520 Reno, NV 89501	Project: Surface Water Project Number: Surface Water Project Manager: Lucas Peters	Date Reported: 09/10/25 14:39
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Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIH0229 - EPA 180.1

Blank (AIH0229-BLK1)

Prepared & Analyzed: 08/26/25

Turbidity	ND	0.1	NTU
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Duplicate (AIH0229-DUP1)

Source: 2508138-04

Prepared & Analyzed: 08/26/25

Turbidity	1.3	0.1	NTU	1.3	0.784	20
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Batch AIH0230 - SM 4500

Duplicate (AIH0230-DUP1)

Source: 2508138-01

Prepared & Analyzed: 08/26/25

Dissolved Oxygen	9.1	0.5	PPM	9.2	0.109	20
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Batch AIH0233 - SM 2540D

Blank (AIH0233-BLK1)

Prepared & Analyzed: 08/28/25

Total Suspended Solids	ND	1.0	mg/L
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LCS (AIH0233-BS1)

Prepared & Analyzed: 08/28/25

Total Suspended Solids	194	10.0	mg/L	200	97.0	80-120
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Duplicate (AIH0233-DUP1)

Source: 2508142-08

Prepared & Analyzed: 08/28/25

Total Suspended Solids	312	20.0	mg/L	292	6.49	20
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Duplicate (AIH0233-DUP2)

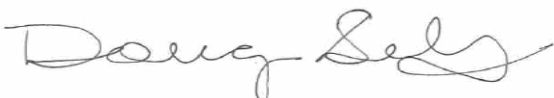
Source: 2508144-06

Prepared & Analyzed: 08/28/25

Total Suspended Solids	314	20.0	mg/L	324	3.13	20
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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC 245 E Liberty St. STE 520 Reno, NV 89501	Project: Surface Water Project Number: Surface Water Project Manager: Lucas Peters	Date Reported: 09/10/25 14:39
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Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AII0016 - EPA 200.7

Blank (AII0016-BLK1)

Prepared: 08/28/25 Analyzed: 08/29/25

Boron	ND	25.0	ug/l
Aluminum	ND	50.0	"
Arsenic	ND	2.5	"
Calcium	ND	50.0	"
Chromium	ND	2.5	"
Copper	ND	2.5	"
Iron	ND	10.0	"
Lead	ND	2.5	"
Magnesium	ND	50.0	"
Manganese	ND	5.0	"
Sodium	ND	100	"
Vanadium	ND	2.5	"
Zinc	ND	5.0	"

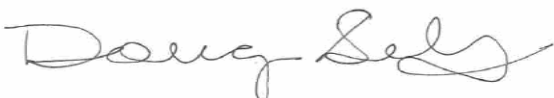
LCS (AII0016-BS1)

Prepared: 08/28/25 Analyzed: 08/29/25

Aluminum	498	50.0	ug/l	500	99.6	85-115
Boron	471	25.0	"	500	94.1	85-115
Arsenic	489	2.5	"	500	97.8	85-115
Calcium	513	50.0	"	500	103	85-115
Chromium	494	2.5	"	500	98.8	85-115
Copper	490	2.5	"	500	98.1	85-115
Iron	501	10.0	"	500	100	85-115
Lead	497	2.5	"	500	99.5	85-115
Magnesium	495	50.0	"	500	99.1	85-115
Manganese	495	5.0	"	500	99.0	85-115
Sodium	510	100	"	500	102	85-115
Vanadium	496	2.5	"	500	99.2	85-115
Zinc	493	5.0	"	500	98.6	85-115

SGS Rocklin

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AII0016 - EPA 200.7

LCS Dup (AII0016-BSD1)

Prepared: 08/28/25 Analyzed: 08/29/25

Boron	467	25.0	ug/l	500		93.4	85-115	0.832	20	
Aluminum	492	50.0	"	500		98.5	85-115	1.15	20	
Arsenic	493	2.5	"	500		98.7	85-115	0.937	20	
Calcium	514	50.0	"	500		103	85-115	0.136	20	
Chromium	496	2.5	"	500		99.3	85-115	0.525	20	
Copper	493	2.5	"	500		98.7	85-115	0.590	20	
Iron	503	10.0	"	500		101	85-115	0.418	20	
Lead	501	2.5	"	500		100	85-115	0.701	20	
Magnesium	499	50.0	"	500		99.8	85-115	0.744	20	
Manganese	496	5.0	"	500		99.3	85-115	0.343	20	
Sodium	499	100	"	500		99.8	85-115	2.20	20	
Vanadium	499	2.5	"	500		99.8	85-115	0.643	20	
Zinc	497	5.0	"	500		99.3	85-115	0.768	20	

Matrix Spike (AII0016-MS1)

Source: 2508139-01

Prepared: 08/28/25 Analyzed: 08/29/25

Aluminum	503	50.0	ug/l	500	ND	101	75-125			
Boron	612	25.0	"	500	99.3	102	75-125			
Arsenic	516	2.5	"	500	ND	103	75-125			
Calcium	48900	500	"	500	47600	263	75-125			QM-05, R-06
Chromium	502	2.5	"	500	0.300	100	75-125			
Copper	508	2.5	"	500	0.200	101	75-125			
Iron	544	10.0	"	500	38.3	101	75-125			
Lead	488	2.5	"	500	ND	97.5	75-125			
Magnesium	15300	50.0	"	500	14800	107	75-125			
Manganese	606	5.0	"	500	111	99.0	75-125			
Sodium	8930	100	"	500	8120	162	75-125			QM-05
Vanadium	517	2.5	"	500	ND	103	75-125			
Zinc	494	5.0	"	500	ND	98.7	75-125			

SGS Rocklin

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AII0016 - EPA 200.7

Matrix Spike Dup (AII0016-MSD1)		Source: 2508139-01			Prepared: 08/28/25		Analyzed: 08/29/25			
Aluminum	486	50.0	ug/l	500	ND	97.2	75-125	3.46	25	
Boron	602	25.0	"	500	99.3	100	75-125	1.63	25	
Arsenic	510	2.5	"	500	ND	102	75-125	1.03	25	
Calcium	49100	500	"	500	47600	306	75-125	0.439	25	QM-05, R-06
Chromium	496	2.5	"	500	0.300	99.1	75-125	1.24	25	
Copper	502	2.5	"	500	0.200	100	75-125	1.17	25	
Iron	535	10.0	"	500	38.3	99.4	75-125	1.50	25	
Lead	482	2.5	"	500	ND	96.5	75-125	1.11	25	
Magnesium	15500	50.0	"	500	14800	144	75-125	1.23	25	QM-05
Manganese	601	5.0	"	500	111	98.0	75-125	0.779	25	
Sodium	8670	100	"	500	8120	109	75-125	3.02	25	
Vanadium	510	2.5	"	500	ND	102	75-125	1.25	25	
Zinc	487	5.0	"	500	ND	97.5	75-125	1.30	25	

Batch AII0056 - EPA 245.1

Blank (AII0056-BLK1)					Prepared: 08/27/25		Analyzed: 09/09/25			
Mercury	ND	0.200	ug/l							
LCS (AII0056-BS1)					Prepared: 08/27/25		Analyzed: 09/09/25			
Mercury	3.17	0.200	ug/l	4.00		79.2	85-115			QR-04
LCS Dup (AII0056-BSD1)					Prepared: 08/27/25		Analyzed: 09/09/25			
Mercury	4.40	0.200	ug/l	4.00		110	85-115	32.6	20	QR-RPD
Matrix Spike (AII0056-MS1)		Source: 2508138-01			Prepared: 08/27/25		Analyzed: 09/09/25			
Mercury	4.38	0.200	ug/l	4.00	ND	110	75-125			

SGS Rocklin

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AII0056 - EPA 245.1

Matrix Spike Dup (AII0056-MSD1)

Source: 2508138-01

Prepared: 08/27/25 Analyzed: 09/09/25

Mercury	4.34	0.200	ug/l	4.00	ND	108	75-125	1.10	20	
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SGS Rocklin

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

Notes and Definitions

Z-01b Corrected Temp in Celsius: 22.6
Z-01a Corrected Temp in Celsius: 22.5
Z-01 Corrected Temp in Celsius: 22.4
R-06 This sample was diluted due to high analyte concentration, resulting in an elevated reporting limit.
QR-RPD The RPD is outside of acceptable QC parameters due to high LCS or LCSD recovery.
QR-04 The LCS percent recovery is outside of Control Chart Limits for this analyte. QA/QC is accepted based on MS/MSD recoveries.
QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Field This analyte was analyzed outside of the EPA recommended hold time of 15 minutes and should be analyzed in the field.
ND Analyte not detected at reporting limit.
NR Not reported

SGS Rocklin

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Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39

		1135 West Sunset Blvd., STE A, Rocklin, CA 95765 Phone (916) 543-4445		CHAIN-OF-CUSTODY-RECORD	
		Page 1 of 1			
WWW.SGS.COM					
Report Results To:	Report Attention: Lucas Peters		Project Number: Surface Water		Send Invoice To:
	Company: Mayacma Geothermal LLC		Invoice Attention: Accounts Payable		
	Mailing Address: 245 E Liberty St STE 520		PO#		
	City, State, Zip: Reno, NV 89501		Quote #		
	Phone: 585-752-6821		Email / Fax: Accounting@openmountainenergy.com		
Sampled by: Lucas Peters		Signature: [Signature]		ANALYSES REQUESTED	
I attest to the validity and authenticity of the sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time is considered fraud and may be grounds for legal action.			For all samples: See quote 2025 895 As, B, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Na, V, Zn Metals Qty 12 ICP (XMETICP12), EPA 200.7 Metals Digestion (METDIG), NA Mercury (HG), EPA 245.1 pH (PH), SM20 4500H B Alkalinity, Carbonate, Bicarbonate (XCARBICALK), SM 2320B Hydroxide Alkalinity (OHALK), SM 2320B Total Suspended Solids (TSS), SM 2540D Turbidity (TURB), SM 2130B Hardness, Total (HRD), SM 2340C Nitrogen, Nitrate by Ion Chromatography (NO3OIC300), EPA 300.0 Sulfate by Ion Chromatography (SO4IC300), EPA 300.0 Dissolved Oxygen (DO), SM 4500-OG Specific Conductance (SCON), SM 2510B Total Coliform (TCF), SM 9221B.C Total Coliform-Enumeration		
Standard: ☒ Standard TAT 10 Business Days. Note that some tests vary. Rush Same Day: ☐ 3 Day: ☐ Other (specify): _____ 1 Day: ☐ 4 Day: ☐ 2 Day: ☐ 5 Day: ☐ Rush results will be issued after 4:00 p.m. NOTE: A Rush Surcharge is applied for rush samples		Other Pertinent Information / Special Instructions			
Date Sampled	Time Sampled	Sample Identification	Lab No.	Comp. Grab	Matrix*
8/25/25	8:56	SW-6		yes	SW
		SW-7			
	11:04	SW-8			
	10:44	SW-9			
	10:59	SW-10			
		2508138			
		BIN C26,C2,C20			
Signature		Print Name		Company	
Relinquished By: [Signature]		Lucas Peters		Mayacma	
Received By: [Signature]		BRYAN W		SGS	
Relinquished By:					
Received By:					
Relinquished By:					
Received By:					
Authorized By:					
Date			Time		
8/25/25			14:34		
8/25/25			14:34		
Authorization is required to process samples. This obligates your organization for service fees. SGS Standard T & C's or other written agreement applies. If collections or legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees. Samples are discarded 30 days after results are reported unless other arrangements are made and storage fees may apply. The analytical results associated with this COC apply only to these samples as they are received by the laboratory. The liability of the laboratory is limited to the amount paid for the report.					
Matrix* DW=Drinking Water, WW=Waste Water, GW=Ground Water, SW=Surface Water, SS-Soil, S-Solid, OT=Other Preservative** 1=H₂SO₄, 2=HNO₃, 3=HCl, 4=NaOH, 5=Na₂S₂O₅, 6=None, 7=Other					

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Doug Selby, Technical Director

SGS Rocklin

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
09/10/25 14:39



SGS - Rocklin
Sample Integrity
FN: F-ROC-SC-001-00
Rev. Date: 11/01/2023
Page 1 of 1

Sample Integrity

WORK ORDER: 2504138

Date Received: 8/25/25

Company Name: MAYACMA
New Client: Y (N)

Section 1 – Sample Arrival Information	
Sample Transport:	ONTRAC UPS USPS <u>Walk-In</u> EXCELCHEM Courier Fed-Ex Other: _____
Transported In:	Ice <u>(C)</u> Chest Box Hand
Packing materials:	Bubble Wrap Foam Packing Peanuts Paper Other: _____
Has chilling process begun?	<u>(Y)</u> N Samples Received: Chilled to Touch / Ambient / <u>(On Ice)</u>
Temperature of Samples (°C):	<u>09/-6</u> Ice Chest Temperature(s) (°C): <u>-6/-9</u>
Thermometer ID:	<u>DT-18</u> CF (°C): <u>-3</u> (Correct Temp: *)

Section 2 – Bottle/Analysis Info.		Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?		<u>(-)</u>			
Did all bottle labels agree with COC?		<u>(-)</u>			
Were correct containers used for the tests requested?		<u>(-)</u>			
Were correct preservations used for the tests requested?		<u>(-)</u>			
Was a sufficient amount of sample sent for tests indicated?		<u>(-)</u>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)				<u>(-)</u>	
Is there head space in the VOA vials? (Volatile Methods Only)				<u>(-)</u>	

Section 3– COC Information		Yes	No	Comments	Yes	No
COC Received	<u>(-)</u>			Analysis Requested	<u>(-)</u>	
Date Sampled	<u>(-)</u>			Samples arrived within holding time	<u>(-)</u>	
Time Sampled	<u>(-)</u>			Hold times less than 72 hours	<u>(-)</u>	
Sample ID	<u>(-)</u>			Client Name	<u>(-)</u>	
Rush Turn Around Time	<u>(-)</u>			Client Contact Information	<u>(-)</u>	

SHORT HOLD LIST (<72 hours)								
<u>(-)</u> MB	Chlorine	Corrosivity	<u>(-)</u> Coliform	Dissolved Oxygen	Odor	Nitrate	Nitrite	Ortho-phosphate
As	Asbestos	Settable Solids	Turbidity	Biochemical Oxygen Demand	HPC	Color	Tedlars	Ammonia/TKN (unpreserved)

Section 4 – Comments / Discrepancies	
Client notified of discrepancies: Yes / No	Notified by: _____
Comments: _____	

Bin Number/ Location:	<u>C26, C22, C20</u>	Filled out by:	<u>SGS</u>	Date:	<u>8/25/25</u>
COC Scanned/Attached by:	<u>BL</u>			Time:	<u>1429</u>
Samples labeled by:	<u>BL</u>				
Sample labels reviewed by:	<u>BL</u>				

SGS Rocklin

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Doug Selby

Doug Selby, Technical Director



ELAP Certificate No. : 2119

17 December 2025

Lucas Peters

Mayacma Geothermal LLC

245 E Liberty St. STE 520

Reno, NV 89501

RE: Surface Water

Work order number: 2512043

Enclosed are the results of analyses for samples received by the laboratory on 12/05/25 14:12. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in cursive script that reads 'Doug Selby'.

Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-6	2512043-01	Water	12/05/25 11:10	12/05/25 14:12
SW-8	2512043-02	Water	12/05/25 10:35	12/05/25 14:12
SW-9	2512043-03	Water	12/05/25 10:10	12/05/25 14:12
SW-10	2512043-04	Water	12/05/25 10:25	12/05/25 14:12



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

SW-6

2512043-01 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate (NO3)	0.13	0.50	0.08	1	mg/L	AIL0084	12/07/25	12/07/25	EPA 300.0	J
Nitrate as Nitrogen	0.03	0.11	0.03	1	"	"	"	"	"	J
Sulfate as SO4	3.7	0.5	0.06	1	"	"	"	"	"	
Wet Chemistry										
Total Alkalinity	8.00	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	
Bicarbonate Alkalinity	8.00	5.00	1.68	1	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	1.68	1	"	"	"	"	"	U
Specific Conductance (@25°C)	250	1.00		1	uS/cm	AIL0100	12/10/25	12/10/25	EPA 120.1	
Dissolved Oxygen	9.8	0.5	0.5	1	PPM	AIL0080	12/07/25	12/07/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	U
pH	7.87	0.100	0.100	1	pH Units	AIL0102	12/10/25	12/10/25	SM 4500-H+ B	Field, Z-01a
Coliform, total	326	1.00	1.00	1	MPN/10 0ml	AIL0078	12/06/25	12/07/25	SM 9223-B	
E. Coli	43.5	1.00	1.00	1	"	"	"	"	"	
Total Hardness	118	5.00	0.475	1	mg/L	AIL0126	12/12/25	12/12/25	SM2340C	
Total Suspended Solids	0.5	1.0	0.5	1	"	AIL0120	12/11/25	12/11/25	SM 2540D	J
Turbidity	0.3	0.1	0.04	1	NTU	AIL0079	12/07/25	12/07/25	EPA 180.1	
Total Recoverable Metals										
Mercury	ND	0.200	0.0883	1	ug/l	AIL0143	12/15/25	12/16/25	EPA 245.1	U



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

SW-6

2512043-01RE1 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Arsenic	1.2	2.5	0.4	1	ug/l	AIL0148	12/15/25	12/17/25	EPA 200.7	J
Boron	77.3	25.0	0.5	1	"	"	"	"	"	
Calcium	13600	50.0	34.0	1	"	"	"	"	"	
Chromium	0.4	2.5	0.06	1	"	"	"	"	"	J
Copper	0.2	2.5	0.2	1	"	"	"	"	"	J
Iron	40.8	10.0	8.0	1	"	"	"	"	"	
Lead	ND	2.5	0.3	1	"	"	"	"	"	U
Magnesium	20400	50.0	14.9	1	"	"	"	"	"	
Manganese	6.4	5.0	0.8	1	"	"	"	"	"	
Sodium	7020	100	43.9	1	"	"	"	"	"	
Vanadium	1.4	2.5	0.1	1	"	"	"	"	"	J
Zinc	1.5	5.0	0.9	1	"	"	"	"	"	J



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

SW-8

2512043-02 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate (NO3)	0.12	0.50	0.08	1	mg/L	AIL0084	12/07/25	12/07/25	EPA 300.0	J
Nitrate as Nitrogen	0.03	0.11	0.03	1	"	"	"	"	"	J
Sulfate as SO4	1.6	0.5	0.06	1	"	"	"	"	"	
Wet Chemistry										
Total Alkalinity	2.00	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	J
Bicarbonate Alkalinity	2.00	5.00	1.68	1	"	"	"	"	"	J
Carbonate Alkalinity	ND	5.00	1.68	1	"	"	"	"	"	U
Specific Conductance (@25°C)	120	1.00		1	uS/cm	AIL0100	12/10/25	12/10/25	EPA 120.1	
Dissolved Oxygen	10.1	0.5	0.5	1	PPM	AIL0080	12/07/25	12/07/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	U
pH	7.53	0.100	0.100	1	pH Units	AIL0102	12/10/25	12/10/25	SM 4500-H+ B	Field, Z-01b
Coliform, total	387	1.00	1.00	1	MPN/10 0ml	AIL0078	12/06/25	12/07/25	SM 9223-B	
E. Coli	17.5	1.00	1.00	1	"	"	"	"	"	
Total Hardness	48.0	5.00	0.475	1	mg/L	AIL0126	12/12/25	12/12/25	SM2340C	
Total Suspended Solids	0.6	1.0	0.5	1	"	AIL0120	12/11/25	12/11/25	SM 2540D	J
Turbidity	0.9	0.1	0.04	1	NTU	AIL0079	12/07/25	12/07/25	EPA 180.1	
Total Recoverable Metals										
Mercury	ND	0.200	0.0883	1	ug/l	AIL0143	12/15/25	12/16/25	EPA 245.1	U



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

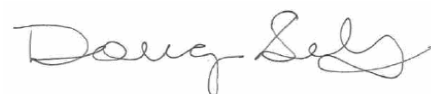
SW-8

2512043-02RE1 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Aluminum	53.3	50.0	33.2	1	ug/l	AIL0148	12/15/25	12/17/25	EPA 200.7	
Arsenic	ND	2.5	0.4	1	"	"	"	"	"	U
Boron	46.3	25.0	0.5	1	"	"	"	"	"	
Calcium	8500	50.0	34.0	1	"	"	"	"	"	
Chromium	1.2	2.5	0.06	1	"	"	"	"	"	J
Copper	ND	2.5	0.2	1	"	"	"	"	"	U
Iron	94.3	10.0	8.0	1	"	"	"	"	"	
Lead	ND	2.5	0.3	1	"	"	"	"	"	U
Magnesium	6400	50.0	14.9	1	"	"	"	"	"	
Manganese	3.9	5.0	0.8	1	"	"	"	"	"	J
Sodium	6100	100	43.9	1	"	"	"	"	"	
Vanadium	1.6	2.5	0.1	1	"	"	"	"	"	J
Zinc	30.8	5.0	0.9	1	"	"	"	"	"	



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

SW-9

2512043-03 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate (NO3)	0.12	0.50	0.08	1	mg/L	AIL0084	12/07/25	12/07/25	EPA 300.0	J
Nitrate as Nitrogen	0.03	0.11	0.03	1	"	"	"	"	"	J
Sulfate as SO4	2.7	0.5	0.06	1	"	"	"	"	"	
Wet Chemistry										
Total Alkalinity	2.00	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	J
Bicarbonate Alkalinity	2.00	5.00	1.68	1	"	"	"	"	"	J
Carbonate Alkalinity	ND	5.00	1.68	1	"	"	"	"	"	U
Specific Conductance (@25°C)	96.2	1.00		1	uS/cm	AIL0100	12/10/25	12/10/25	EPA 120.1	
Dissolved Oxygen	10.1	0.5	0.5	1	PPM	AIL0080	12/07/25	12/07/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	U
pH	7.33	0.100	0.100	1	pH Units	AIL0102	12/10/25	12/10/25	SM 4500-H+ B	Field, Z-01c
Coliform, total	461	1.00	1.00	1	MPN/10 0ml	AIL0078	12/06/25	12/07/25	SM 9223-B	
E. Coli	4.10	1.00	1.00	1	"	"	"	"	"	
Total Hardness	34.0	5.00	0.475	1	mg/L	AIL0126	12/12/25	12/12/25	SM2340C	
Total Suspended Solids	0.6	1.0	0.5	1	"	AIL0120	12/11/25	12/11/25	SM 2540D	J
Turbidity	0.5	0.1	0.04	1	NTU	AIL0079	12/07/25	12/07/25	EPA 180.1	
Total Recoverable Metals										
Mercury	ND	0.200	0.0883	1	ug/l	AIL0143	12/15/25	12/16/25	EPA 245.1	U



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Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
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Date Reported:
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SW-9

2512043-03RE1 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Aluminum	ND	50.0	33.2	1	ug/l	AIL0148	12/15/25	12/17/25	EPA 200.7	U
Arsenic	ND	2.5	0.4	1	"	"	"	"	"	U
Boron	110	25.0	0.5	1	"	"	"	"	"	
Calcium	8520	50.0	34.0	1	"	"	"	"	"	
Chromium	3.4	2.5	0.06	1	"	"	"	"	"	
Copper	0.4	2.5	0.2	1	"	"	"	"	"	J
Iron	56.2	10.0	8.0	1	"	"	"	"	"	
Lead	0.5	2.5	0.3	1	"	"	"	"	"	J
Magnesium	4200	50.0	14.9	1	"	"	"	"	"	
Manganese	5.0	5.0	0.8	1	"	"	"	"	"	
Sodium	5230	100	43.9	1	"	"	"	"	"	
Vanadium	0.8	2.5	0.1	1	"	"	"	"	"	J
Zinc	87.9	5.0	0.9	1	"	"	"	"	"	



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Mayacma Geothermal LLC
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Reno, NV 89501

Project: Surface Water
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Project Manager: Lucas Peters

Date Reported:
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SW-10

2512043-04 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate (NO3)	0.12	0.50	0.08	1	mg/L	AIL0084	12/07/25	12/07/25	EPA 300.0	J
Nitrate as Nitrogen	0.03	0.11	0.03	1	"	"	"	"	"	J
Sulfate as SO4	2.1	0.5	0.06	1	"	"	"	"	"	
Wet Chemistry										
Total Alkalinity	2.00	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	J
Bicarbonate Alkalinity	2.00	5.00	1.68	1	"	"	"	"	"	J
Carbonate Alkalinity	ND	5.00	1.68	1	"	"	"	"	"	U
Specific Conductance (@25°C)	125	1.00		1	uS/cm	AIL0100	12/10/25	12/10/25	EPA 120.1	
Dissolved Oxygen	10.2	0.5	0.5	1	PPM	AIL0080	12/07/25	12/07/25	SM 4500	
Hydroxide Alkalinity	ND	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	U
pH	7.56	0.100	0.100	1	pH Units	AIL0102	12/10/25	12/10/25	SM 4500-H+ B	Field, Z-01d
Coliform, total	687	1.00	1.00	1	MPN/10 0ml	AIL0078	12/06/25	12/07/25	SM 9223-B	
E. Coli	10.9	1.00	1.00	1	"	"	"	"	"	
Total Hardness	50.0	5.00	0.475	1	mg/L	AIL0126	12/12/25	12/12/25	SM2340C	
Total Suspended Solids	0.7	1.0	0.5	1	"	AIL0120	12/11/25	12/11/25	SM 2540D	J
Turbidity	1.0	0.1	0.04	1	NTU	AIL0079	12/07/25	12/07/25	EPA 180.1	
Total Recoverable Metals										
Mercury	ND	0.200	0.0883	1	ug/l	AIL0143	12/15/25	12/16/25	EPA 245.1	U



Doug Selby, Technical Director

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Reno, NV 89501

Project: Surface Water
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Date Reported:
12/17/25 14:47

SW-10

2512043-04RE1 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Aluminum	71.9	50.0	33.2	1	ug/l	AIL0148	12/15/25	12/17/25	EPA 200.7	
Arsenic	0.5	2.5	0.4	1	"	"	"	"	"	J
Boron	29.9	25.0	0.5	1	"	"	"	"	"	
Calcium	8780	50.0	34.0	1	"	"	"	"	"	
Chromium	0.4	2.5	0.06	1	"	"	"	"	"	J
Copper	1.3	2.5	0.2	1	"	"	"	"	"	J
Iron	118	10.0	8.0	1	"	"	"	"	"	
Lead	ND	2.5	0.3	1	"	"	"	"	"	U
Magnesium	7290	50.0	14.9	1	"	"	"	"	"	
Manganese	5.1	5.0	0.8	1	"	"	"	"	"	
Sodium	6600	100	43.9	1	"	"	"	"	"	
Vanadium	1.9	2.5	0.1	1	"	"	"	"	"	J
Zinc	1.3	5.0	0.9	1	"	"	"	"	"	J



Doug Selby, Technical Director

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Reno, NV 89501

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Project Number: Surface Water
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Date Reported:
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Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0084 - EPA 300.0

Blank (AIL0084-BLK1)

Prepared & Analyzed: 12/07/25

Nitrate (NO3)	ND	0.50	0.08	mg/L							U
Nitrate as Nitrogen	ND	0.11	0.03	"							U
Sulfate as SO4	0.1	0.5	0.06	"							J

LCS (AIL0084-BS1)

Prepared & Analyzed: 12/07/25

Nitrate (NO3)	10.8	0.50	0.08	mg/L	10.0		108	90-110			
Nitrate as Nitrogen	2.43	0.11	0.03	"	2.26		108	90-110			
Sulfate as SO4	10.7	0.5	0.06	"	10.0		107	80-120			

LCS Dup (AIL0084-BSD1)

Prepared & Analyzed: 12/07/25

Nitrate (NO3)	10.8	0.50	0.08	mg/L	10.0		108	90-110	0.474	20	
Nitrate as Nitrogen	2.44	0.11	0.03	"	2.26		108	90-110	0.474	20	
Sulfate as SO4	10.7	0.5	0.06	"	10.0		107	80-120	0.177	20	

Matrix Spike (AIL0084-MS1)

Source: 2512046-01

Prepared & Analyzed: 12/07/25

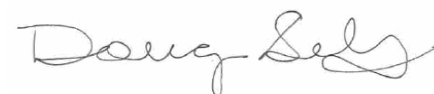
Nitrate (NO3)	14.0	0.50	0.08	mg/L	10.0	3.62	104	75-125			
Nitrate as Nitrogen	3.16	0.11	0.03	"	2.26	0.82	104	75-125			
Sulfate as SO4	34.6	0.5	0.06	"	10.0	27.9	66.9	75-125			QM-07

Matrix Spike Dup (AIL0084-MSD1)

Source: 2512046-01

Prepared & Analyzed: 12/07/25

Nitrate (NO3)	14.0	0.50	0.08	mg/L	10.0	3.62	104	75-125	0.0571	20	
Nitrate as Nitrogen	3.16	0.11	0.03	"	2.26	0.82	104	75-125	0.0571	20	
Sulfate as SO4	34.7	0.5	0.06	"	10.0	27.9	67.3	75-125	0.109	20	QM-07



Doug Selby, Technical Director

Mayacma Geothermal LLC
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Reno, NV 89501

Project: Surface Water
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Date Reported:
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Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0079 - EPA 180.1

Blank (AIL0079-BLK1)

Prepared & Analyzed: 12/07/25

Turbidity	ND	0.1	0.04	NTU							U
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Duplicate (AIL0079-DUP1)

Source: 2512042-02

Prepared & Analyzed: 12/07/25

Turbidity	3.5	0.1	0.04	NTU		3.4			3.16	20	
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Batch AIL0080 - SM 4500

Duplicate (AIL0080-DUP1)

Source: 2512043-01

Prepared & Analyzed: 12/07/25

Dissolved Oxygen	10.0	0.5	0.5	PPM		9.8			1.42	20	
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Batch AIL0100 - EPA 120.1

Duplicate (AIL0100-DUP1)

Source: 2512067-03

Prepared & Analyzed: 12/10/25

Specific Conductance (@25°C)	484	1.00		uS/cm		480			0.830	20	
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Batch AIL0102 - SM 4500-H+ B

Duplicate (AIL0102-DUP1)

Source: 2512046-01

Prepared & Analyzed: 12/10/25

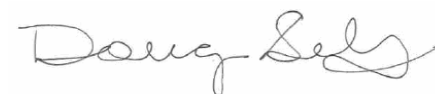
pH	6.83	0.100	0.100	pH Units		6.79			0.573	20	Z-01
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Batch AIL0120 - SM 2540D

Blank (AIL0120-BLK1)

Prepared & Analyzed: 12/11/25

Total Suspended Solids	ND	1.0	0.5	mg/L							U
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Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0120 - SM 2540D

LCS (AIL0120-BS1)

Prepared & Analyzed: 12/11/25

Total Suspended Solids	212	10.0	5.0	mg/L	200	106	80-120
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Duplicate (AIL0120-DUP1)

Source: 2512031-06

Prepared & Analyzed: 12/11/25

Total Suspended Solids	158	20.0	10.0	mg/L	134	16.4	20
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Duplicate (AIL0120-DUP2)

Source: 2512072-06

Prepared & Analyzed: 12/11/25

Total Suspended Solids	176	20.0	10.0	mg/L	174	1.14	20
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Batch AIL0126 - SM2340C

Blank (AIL0126-BLK1)

Prepared & Analyzed: 12/12/25

Total Hardness	ND	5.00	0.475	mg/L						U
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LCS (AIL0126-BS1)

Prepared & Analyzed: 12/12/25

Total Hardness	50.0	5.00	0.475	mg/L	50.0	100	80-120
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LCS Dup (AIL0126-BSD1)

Prepared & Analyzed: 12/12/25

Total Hardness	50.0	5.00	0.475	mg/L	50.0	100	80-120	0.00	20
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Duplicate (AIL0126-DUP1)

Source: 2512046-01

Prepared & Analyzed: 12/12/25

Total Hardness	170	5.00	0.475	mg/L	166	2.38	20
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Matrix Spike (AIL0126-MS1)

Source: 2512046-01

Prepared & Analyzed: 12/12/25

Total Hardness	220	5.00	0.475	mg/L	50.0	166	108	75-125
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Matrix Spike Dup (AIL0126-MSD1)

Source: 2512046-01

Prepared & Analyzed: 12/12/25

Total Hardness	220	5.00	0.475	mg/L	50.0	166	108	75-125	0.00	20
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Doug Selby, Technical Director

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Reno, NV 89501

Project: Surface Water
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Date Reported:
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Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0127 - SM2320B

Blank (AIL0127-BLK1)

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	2.00	5.00	1.68	mg/L							J
Carbonate Alkalinity	ND	5.00	1.68	"							U
Hydroxide Alkalinity	ND	5.00	1.68	"							U
Total Alkalinity	2.00	5.00	1.68	"							J

LCS (AIL0127-BS1)

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	ND	5.00	1.68	mg/L				80-120			U
Total Alkalinity	100	5.00	1.68	"	100		100	80-120			

LCS Dup (AIL0127-BSD1)

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	ND	5.00	1.68	mg/L				80-120	20		U
Total Alkalinity	100	5.00	1.68	"	100		100	80-120	0.00	20	

Duplicate (AIL0127-DUP1)

Source: 2512043-04

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	2.00	5.00	1.68	mg/L		2.00			0.00	20	J
Carbonate Alkalinity	ND	5.00	1.68	"		ND				20	U
Hydroxide Alkalinity	ND	5.00	1.68	"		ND				20	U
Total Alkalinity	2.00	5.00	1.68	"		2.00			0.00	20	J

Matrix Spike (AIL0127-MS1)

Source: 2512043-04

Prepared & Analyzed: 12/12/25

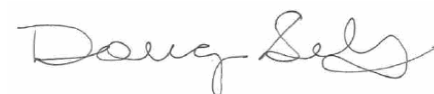
Bicarbonate Alkalinity	ND	5.00	1.68	mg/L		2.00		80-120			U
Total Alkalinity	100	5.00	1.68	"	100	2.00	98.0	80-120			

Matrix Spike Dup (AIL0127-MSD1)

Source: 2512043-04

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	ND	5.00	1.68	mg/L		2.00		80-120	20		U
Total Alkalinity	100	5.00	1.68	"	100	2.00	98.0	80-120	0.00	20	



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Date Reported:
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Total Recoverable Metals - Quality Control

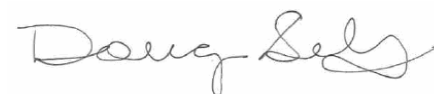
Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0121 - EPA 200.7

Blank (AIL0121-BLK1)					Prepared: 12/11/25 Analyzed: 12/12/25						
Zinc	2.50	5.0	0.9	ug/l							J
LCS (AIL0121-BS1)					Prepared: 12/11/25 Analyzed: 12/12/25						
Zinc	486	5.0	0.9	ug/l	500		97.2	85-115			
LCS Dup (AIL0121-BSD1)					Prepared: 12/11/25 Analyzed: 12/12/25						
Zinc	494	5.0	0.9	ug/l	500		98.9	85-115	1.75	20	
Matrix Spike (AIL0121-MS1)					Source: 2512046-01		Prepared: 12/11/25 Analyzed: 12/12/25				
Zinc	503	5.0	0.9	ug/l	500	23.2	96.0	75-125			
Matrix Spike Dup (AIL0121-MSD1)					Source: 2512046-01		Prepared: 12/11/25 Analyzed: 12/12/25				
Zinc	502	5.0	0.9	ug/l	500	23.2	95.9	75-125	0.0995	25	

Batch AIL0143 - EPA 245.1

Blank (AIL0143-BLK1)					Prepared: 12/15/25 Analyzed: 12/16/25						
Mercury	ND	0.200	0.0883	ug/l							U
LCS (AIL0143-BS1)					Prepared: 12/15/25 Analyzed: 12/16/25						
Mercury	3.60	0.200	0.0883	ug/l	4.00		90.0	85-115			
LCS Dup (AIL0143-BSD1)					Prepared: 12/15/25 Analyzed: 12/16/25						
Mercury	3.62	0.200	0.0883	ug/l	4.00		90.4	85-115	0.443	20	
Matrix Spike (AIL0143-MS1)					Source: 2512043-01		Prepared: 12/15/25 Analyzed: 12/16/25				
Mercury	3.76	0.200	0.0883	ug/l	4.00	ND	94.0	75-125			



Doug Selby, Technical Director

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Reno, NV 89501

Project: Surface Water
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Date Reported:
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Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0143 - EPA 245.1

Matrix Spike Dup (AIL0143-MSD1)

Source: 2512043-01

Prepared: 12/15/25 Analyzed: 12/16/25

Mercury	3.87	0.200	0.0883	ug/l	4.00	ND	96.8	75-125	2.94	20	
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Batch AIL0148 - EPA 200.7

Blank (AIL0148-BLK1)

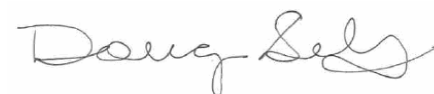
Prepared: 12/13/25 Analyzed: 12/17/25

Aluminum	ND	50.0	33.2	ug/l							U
Boron	ND	25.0	0.5	"							U
Arsenic	ND	2.5	0.4	"							U
Calcium	ND	50.0	34.0	"							U
Chromium	ND	2.5	0.06	"							U
Copper	ND	2.5	0.2	"							U
Iron	ND	10.0	8.0	"							U
Lead	ND	2.5	0.3	"							U
Magnesium	ND	50.0	14.9	"							U
Manganese	4.50	5.0	0.8	"							J
Sodium	ND	100	43.9	"							U
Vanadium	ND	2.5	0.1	"							U
Zinc	1.10	5.0	0.9	"							J

LCS (AIL0148-BS1)

Prepared: 12/13/25 Analyzed: 12/17/25

Aluminum	513	50.0	33.2	ug/l	500	103	85-115
Boron	487	25.0	0.5	"	500	97.4	85-115
Arsenic	494	2.5	0.4	"	500	98.8	85-115
Calcium	507	50.0	34.0	"	500	101	85-115
Chromium	502	2.5	0.06	"	500	100	85-115
Copper	497	2.5	0.2	"	500	99.3	85-115
Iron	499	10.0	8.0	"	500	99.8	85-115
Lead	503	2.5	0.3	"	500	101	85-115
Magnesium	503	50.0	14.9	"	500	101	85-115
Manganese	497	5.0	0.8	"	500	99.4	85-115
Sodium	526	100	43.9	"	500	105	85-115
Vanadium	498	2.5	0.1	"	500	99.6	85-115
Zinc	496	5.0	0.9	"	500	99.2	85-115



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0148 - EPA 200.7

LCS (AIL0148-BS1)

Prepared: 12/13/25 Analyzed: 12/17/25

LCS Dup (AIL0148-BSD1)

Prepared: 12/13/25 Analyzed: 12/17/25

Boron	494	25.0	0.5	ug/l	500		98.7	85-115	1.33	20	
Aluminum	518	50.0	33.2	"	500		104	85-115	1.09	20	
Arsenic	505	2.5	0.4	"	500		101	85-115	2.16	20	
Calcium	518	50.0	34.0	"	500		104	85-115	2.13	20	
Chromium	509	2.5	0.06	"	500		102	85-115	1.48	20	
Copper	502	2.5	0.2	"	500		100	85-115	1.14	20	
Iron	507	10.0	8.0	"	500		101	85-115	1.49	20	
Lead	510	2.5	0.3	"	500		102	85-115	1.28	20	
Magnesium	513	50.0	14.9	"	500		103	85-115	1.81	20	
Manganese	504	5.0	0.8	"	500		101	85-115	1.42	20	
Sodium	534	100	43.9	"	500		107	85-115	1.55	20	
Vanadium	505	2.5	0.1	"	500		101	85-115	1.50	20	
Zinc	504	5.0	0.9	"	500		101	85-115	1.62	20	

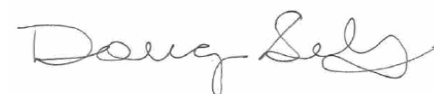
Matrix Spike (AIL0148-MS1)

Source: 2512082-01

Prepared: 12/13/25 Analyzed: 12/17/25

Aluminum	555	50.0	33.2	ug/l	500	35.8	104	75-125			
Boron	530	25.0	0.5	"	500	7.00	105	75-125			
Arsenic	518	2.5	0.4	"	500	0.400	103	75-125			
Calcium	32600	100	68.1	"	500	31700	180	75-125			
Chromium	510	2.5	0.06	"	500	ND	102	75-125			
Copper	522	2.5	0.2	"	500	3.70	104	75-125			
Iron	543	10.0	8.0	"	500	38.5	101	75-125			
Lead	497	2.5	0.3	"	500	ND	99.4	75-125			
Magnesium	8440	50.0	14.9	"	500	7880	113	75-125			
Manganese	499	5.0	0.8	"	500	1.00	99.6	75-125			
Sodium	12900	100	43.9	"	500	12400	105	75-125			
Vanadium	518	2.5	0.1	"	500	1.30	103	75-125			
Zinc	505	5.0	0.9	"	500	4.00	100	75-125			

QM-05,
R-06



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0148 - EPA 200.7

Matrix Spike Dup (AIL0148-MSD1)

Source: 2512082-01

Prepared: 12/13/25 Analyzed: 12/17/25

Aluminum	550	50.0	33.2	ug/l	500	35.8	103	75-125	0.886	25	
Boron	525	25.0	0.5	"	500	7.00	104	75-125	1.02	25	
Arsenic	513	2.5	0.4	"	500	0.400	103	75-125	0.795	25	
Calcium	32900	100	68.1	"	500	31700	243	75-125	0.967	25	QM-05, R-06
Chromium	507	2.5	0.06	"	500	ND	101	75-125	0.551	25	
Copper	519	2.5	0.2	"	500	3.70	103	75-125	0.692	25	
Iron	541	10.0	8.0	"	500	38.5	100	75-125	0.351	25	
Lead	494	2.5	0.3	"	500	ND	98.8	75-125	0.646	25	
Magnesium	8490	50.0	14.9	"	500	7880	123	75-125	0.614	25	
Manganese	501	5.0	0.8	"	500	1.00	100	75-125	0.400	25	
Sodium	13000	100	43.9	"	500	12400	118	75-125	0.486	25	
Vanadium	515	2.5	0.1	"	500	1.30	103	75-125	0.523	25	
Zinc	502	5.0	0.9	"	500	4.00	99.6	75-125	0.556	25	



Doug Selby, Technical Director

Mayacma Geothermal LLC 245 E Liberty St. STE 520 Reno, NV 89501	Project: Surface Water Project Number: Surface Water Project Manager: Lucas Peters	Date Reported: 12/17/25 14:47
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Notes and Definitions

Z-01d Corrected Temperature: 23.9

Z-01c Corrected Temperature: 23.5

Z-01b Corrected Temperature: 23.2

Z-01a Corrected Temperature: 23.0

Z-01 Corrected Temperature: 22.3

U Undetected

R-06 This sample was diluted due to high analyte concentration, resulting in an elevated reporting limit.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Field This analyte was analyzed outside of the EPA recommended hold time of 15 minutes and should be analyzed in the field.

ND Analyte not detected at the reporting limit.

NR Not reported

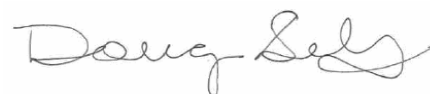
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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How did we do today?

Your feedback helps us improve our service and takes less than a minute to complete.

START SURVEY



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St, STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47

SGS		1135 West Sunset Blvd., STE A, Rocklin, CA 95765 Phone (916) 543-4445		CHAIN-OF-CUSTODY-RECORD	
WWW.SGS.COM				Page 1 of 1	
Report Results To:	Report Attention: Lucas Peters Company: Mayacma Geothermal LLC Mailing Address: 245 E Liberty St STE 520 City, State, Zip: Reno, NV 89501 Phone: 585-752-6821	Project Number: Surface Water	Invoice Attention: Accounts Payable Company: Mayacma Geothermal LLC Mailing Address: 245 E Liberty St STE 520 City, State, Zip: Reno, NV 89501 Phone: Accounting@openmountainenergy.com	PO#	Quote #
I attest to the validity and authenticity of the sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time is considered fraud and may be grounds for legal action.		Other Pertinent Information / Special Instructions Please provide Excel and PDF versions of the report.		ANALYSES REQUESTED For all samples: See quote 2025 895 As, B, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Na, V, Zn Metals City 12 ICP (XMETICP12), EPA 200.7 Metals Digestion (METDIG), NA Mercury (HG), EPA 245.1 pH (PH), SM20 4500H B Alkalinity, Carbonate, Bicarbonate (XCARBALK), SM 2320B Hydroside Alkalinity (OHALK), SM 2320B Total Suspended Solids (TSS), SM 2540D Turbidity (TURB), SM 2130B Hardness, Total (HRD), SM 2340C Nitrogen, Nitrate by Ion Chromatography (NO3IONC300), EPA 300.0 Sulfate by Ion Chromatography (SO4IC300), EPA 300.0 Dissolved Oxygen (DO), SM 4500-OG Specific Conductance (SCON), SM 2510B Total Coliform (TCF), SM 9221B.C Total Coliform-Enumeration	
Standard: ☒ Standard TAT 10 Business Days. Note that some tests vary. Rush Same Day: ☐ 3 Day: ☐ Other (specify): 1 Day: ☐ 4 Day: ☐ Rush results will be issued after 4:00 p.m. 2 Day: ☐ 5 Day: ☐ NOTE: A Rush Surcharge is applied for rush samples		Date Sampled: 12/5/25 Time Sampled: 11:10 Sample Identification: SW-6 Lab No.: 2512043 Bin: D-2 Date Sampled: 12/5/25 Time Sampled: 10:35 Sample Identification: SW-8 Date Sampled: 12/5/25 Time Sampled: 10:10 Sample Identification: SW-9 Date Sampled: 12/5/25 Time Sampled: 10:25 Sample Identification: SW-10		COMPPLIANCE MONITORING? Yes ☒ No ☐ Results: ☐ Invoice: ☐ NEW ADDRESS? Applicable Program SDWA ☐ CWA ☐ RCRA ☐ Mining ☐ Other ☐ QC Level Report I II III IV NOTE: Surcharge applies to Level II, III and IV reports Send Results Via: Mail: ☐ Email: ☒ Send Invoice Via: Mail: ☐ Email: ☒ Field Measurements On-Site pH: Chlorine: Temperature: Other: METALS: As, B, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Na, V, Zn COMMENTS:	
Relinquished By: Lucas Peters	Signature: Lucas Peters	Print Name: Lucas Peters	Company: Mayacma	Date: 12/5/25	Time: 2:01 pm
Received By: [Signature]	Signature: [Signature]	Print Name: Aradhana Singh	Company: SGS	Date: 12/05/25	Time: 2:12 pm
Relinquished By:	Signature:	Print Name:	Company:	Date:	Time:
Received By:	Signature:	Print Name:	Company:	Date:	Time:
Relinquished By:	Signature:	Print Name:	Company:	Date:	Time:
Received By:	Signature:	Print Name:	Company:	Date:	Time:
Authorized By:	Signature:	Print Name:	Company:	Date:	Time:
Authorization is required to process samples. This obligates your organization for service fees. SGS Standard T & C's or other written agreement applies. If collections or legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees.			Samples are discarded 30 days after results are reported unless other arrangements are made and storage fees may apply. The analytical results associated with this COC apply only to these samples as they are received by the laboratory. The liability of the laboratory is limited to the amount paid for the report.		
Matrix: DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other Preservative: 1=H ₂ SO ₄ , 2=HNO ₃ , 3=HCl, 4=NaOH, 5=Na ₂ S ₂ O ₃ , 6=None, 7=Other			Container: P-Plastic, G-Glass, V-Vial, OT-Other		

Doug Selby

Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Surface Water
Project Number: Surface Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:47



SGS - Rocklin
Sample Integrity
FN: F-ROC-SC-001-01
Rev. Date: 10/02/2025
Page 160 of 200

Sample Integrity Form

Company Name: Mayacma Geothermal
Date Received: 12/05/2025

WORK ORDER: 2512043
New Client: Y N

Section 1 – Sample Arrival Information	
Sample Transport:	Fed-Ex SGS Courier UPS <u>Walk-In</u> Other: _____
Transported In:	<u>Ice Chest</u> Box Hand
Packing materials:	Bubble Wrap Foam Packing Peanuts Paper Other: _____
Has chilling process begun?	<u>Y</u> N Samples Received: <u>Chilled to Touch</u> Ambient <u>On Ice</u>
Temperature of Samples (°C):	<u>8.1°C/8.0°C</u> Ice Chest Temperature(s) (°C): <u>2.4°C/2.3°C</u>
Thermometer ID:	<u>DT-19</u> CF (°C): <u>-0.1°C</u>

Section 2 – Bottle/Analysis Information		Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?		☒			
Did all bottle labels agree with COC?		☒			
Were correct containers used for the tests requested?		☒			
Were correct preservations used for the tests requested?		☒			
Was a sufficient amount of sample sent for tests indicated?		☒			
Were bubbles present in VOA Vials?: (Volatile Methods Only)				☒	
Is there head space in the VOA vials? (Volatile Methods Only)				☒	

Section 3– COC Information		Yes	No	Comments	Yes	No
COC Received		☒			Analysis Requested	☒
Date Sampled		☒			Samples arrived within holding time	☒
Time Sampled		☒			Hold times less than 72 hours	☒
Sample ID		☒			Client Name	☒
Rush Turn Around Time			☒		Client Contact Information	☒

SHORT HOLD LIST (<72 hours)							
pH	Chlorine	Corrosivity	Coliform	Dissolved Oxygen	Odor	Nitrate	Ortho-phosphate
MBAs	Asbestos	Settable Solids	Turbidity	Biochemical Oxygen Demand	HPC	<u>Nitrite</u> Color	Nitrite Tcdlars
							Ammonia/TKN (unpreserved)

Section 4 – Comments / Discrepancies	
Client notified of discrepancies: Yes / No	Notified by:
Comments:	

Bin Number/ Location:	<u>A21 D-12</u>	Filled out by:	<u>Aradhana Singh</u>	Date:	<u>12/05/25</u>
COC Scanned/Attached by:	<u>SLC</u>			Time:	<u>2:28pm</u>
Samples labeled by:	<u>SLC</u>				
Sample labels reviewed by:	<u>SLC</u>				

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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START SURVEY

Doug Selby, Technical Director



ELAP Certificate No. : 2119

17 December 2025

Lucas Peters

Mayacma Geothermal LLC

245 E Liberty St. STE 520

Reno, NV 89501

RE: Ground Water

Work order number: 2512042

Enclosed are the results of analyses for samples received by the laboratory on 12/05/25 14:12. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in cursive script that reads 'Doug Selby'.

Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-1	2512042-01	Water	12/04/25 12:35	12/05/25 14:12
GW-3/Pump House One	2512042-02	Water	12/04/25 10:40	12/05/25 14:12



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

GW-1

2512042-01 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	0.15	0.50	0.08	1	mg/L	AIL0084	12/07/25	12/07/25	EPA 300.0	O-04, J
Nitrate as Nitrogen	0.03	0.11	0.03	1	"	"	"	"	"	O-04, J
Sulfate as SO4	21.4	0.5	0.06	1	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	32.0	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	
Bicarbonate Alkalinity	32.0	5.00	1.68	1	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	1.68	1	"	"	"	"	"	U
Specific Conductance (@25°C)	393	1.00		1	uS/cm	AIL0100	12/10/25	12/10/25	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	U
pH	7.50	0.100	0.100	1	pH Units	AIL0102	12/10/25	12/10/25	SM 4500-H+ B	Field, Z-01a
Total Hardness	188	5.00	0.475	1	mg/L	AIL0126	12/12/25	12/12/25	SM2340C	
Total Suspended Solids	ND	1.1	0.6	1	"	AIL0120	12/11/25	12/11/25	SM 2540D	U
Turbidity	0.3	0.1	0.04	1	NTU	AIL0079	12/07/25	12/07/25	EPA 180.1	O-04



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

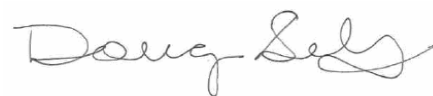
GW-1

2512042-01RE1 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Arsenic	0.8	2.5	0.4	1	ug/l	AIL0148	12/15/25	12/17/25	EPA 200.7	J
Boron	100	25.0	0.5	1	"	"	"	"	"	
Calcium	51300	100	68.1	2	"	"	"	"	"	R-06
Copper	ND	2.5	0.2	1	"	"	"	"	"	U
Iron	37.7	10.0	8.0	1	"	"	"	"	"	
Lead	ND	2.5	0.3	1	"	"	"	"	"	U
Magnesium	15200	50.0	14.9	1	"	"	"	"	"	
Manganese	110	5.0	0.8	1	"	"	"	"	"	
Sodium	8970	100	43.9	1	"	"	"	"	"	
Zinc	2.7	5.0	0.9	1	"	"	"	"	"	J



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

GW-3/Pump House One

2512042-02 (Water)

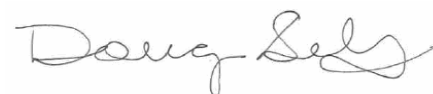
Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate (NO3)	ND	0.50	0.08	1	mg/L	AIL0084	12/07/25	12/07/25	EPA 300.0	O-04, U
Nitrate as Nitrogen	ND	0.11	0.03	1	"	"	"	"	"	O-04, U
Sulfate as SO4	5.6	0.5	0.06	1	"	"	"	"	"	

Wet Chemistry

Total Alkalinity	8.00	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	
Bicarbonate Alkalinity	8.00	5.00	1.68	1	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	1.68	1	"	"	"	"	"	U
Specific Conductance (@25°C)	360	1.00		1	uS/cm	AIL0100	12/10/25	12/10/25	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	1.68	1	mg/L	AIL0127	12/12/25	12/12/25	SM2320B	U
pH	7.57	0.100	0.100	1	pH Units	AIL0102	12/10/25	12/10/25	SM 4500-H+ B	Field, Z-01b
Total Hardness	132	5.00	0.475	1	mg/L	AIL0126	12/12/25	12/12/25	SM2340C	
Total Suspended Solids	2.3	1.1	0.6	1	"	AIL0120	12/11/25	12/11/25	SM 2540D	
Turbidity	3.4	0.1	0.04	1	NTU	AIL0079	12/07/25	12/07/25	EPA 180.1	O-04



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

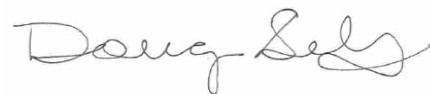
GW-3/Pump House One

2512042-02RE1 (Water)

Analyte	Result	Reporting Limit	MDL	DF	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Arsenic	1.5	2.5	0.4	1	ug/l	AIL0148	12/15/25	12/17/25	EPA 200.7	J
Boron	430	25.0	0.5	1	"	"	"	"	"	
Calcium	37700	100	68.1	2	"	"	"	"	"	R-06
Copper	5.1	2.5	0.2	1	"	"	"	"	"	
Iron	994	10.0	8.0	1	"	"	"	"	"	
Lead	1.4	2.5	0.3	1	"	"	"	"	"	J
Magnesium	10200	50.0	14.9	1	"	"	"	"	"	
Manganese	54.2	5.0	0.8	1	"	"	"	"	"	
Sodium	26100	200	87.8	2	"	"	"	"	"	R-06
Zinc	14.9	5.0	0.9	1	"	"	"	"	"	



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0084 - EPA 300.0

Blank (AIL0084-BLK1)

Prepared & Analyzed: 12/07/25

Nitrate (NO3)	ND	0.50	0.08	mg/L							U
Nitrate as Nitrogen	ND	0.11	0.03	"							U
Sulfate as SO4	0.1	0.5	0.06	"							J

LCS (AIL0084-BS1)

Prepared & Analyzed: 12/07/25

Nitrate (NO3)	10.8	0.50	0.08	mg/L	10.0		108	90-110			
Nitrate as Nitrogen	2.43	0.11	0.03	"	2.26		108	90-110			
Sulfate as SO4	10.7	0.5	0.06	"	10.0		107	80-120			

LCS Dup (AIL0084-BSD1)

Prepared & Analyzed: 12/07/25

Nitrate (NO3)	10.8	0.50	0.08	mg/L	10.0		108	90-110	0.474	20	
Nitrate as Nitrogen	2.44	0.11	0.03	"	2.26		108	90-110	0.474	20	
Sulfate as SO4	10.7	0.5	0.06	"	10.0		107	80-120	0.177	20	

Matrix Spike (AIL0084-MS1)

Source: 2512046-01

Prepared & Analyzed: 12/07/25

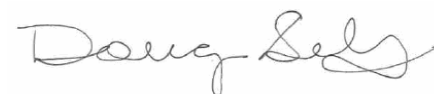
Nitrate (NO3)	14.0	0.50	0.08	mg/L	10.0	3.62	104	75-125			
Nitrate as Nitrogen	3.16	0.11	0.03	"	2.26	0.82	104	75-125			
Sulfate as SO4	34.6	0.5	0.06	"	10.0	27.9	66.9	75-125			QM-07

Matrix Spike Dup (AIL0084-MSD1)

Source: 2512046-01

Prepared & Analyzed: 12/07/25

Nitrate (NO3)	14.0	0.50	0.08	mg/L	10.0	3.62	104	75-125	0.0571	20	
Nitrate as Nitrogen	3.16	0.11	0.03	"	2.26	0.82	104	75-125	0.0571	20	
Sulfate as SO4	34.7	0.5	0.06	"	10.0	27.9	67.3	75-125	0.109	20	QM-07



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0079 - EPA 180.1

Blank (AIL0079-BLK1)

Prepared & Analyzed: 12/07/25

Turbidity	ND	0.1	0.04	NTU							U
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Duplicate (AIL0079-DUP1)

Source: 2512042-02

Prepared & Analyzed: 12/07/25

Turbidity	3.5	0.1	0.04	NTU		3.4			3.16	20	
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Batch AIL0100 - EPA 120.1

Duplicate (AIL0100-DUP1)

Source: 2512067-03

Prepared & Analyzed: 12/10/25

Specific Conductance (@25°C)	484	1.00		uS/cm		480			0.830	20	
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Batch AIL0102 - SM 4500-H+ B

Duplicate (AIL0102-DUP1)

Source: 2512046-01

Prepared & Analyzed: 12/10/25

pH	6.83	0.100	0.100	pH Units		6.79			0.573	20	Z-01
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Batch AIL0120 - SM 2540D

Blank (AIL0120-BLK1)

Prepared & Analyzed: 12/11/25

Total Suspended Solids	ND	1.0	0.5	mg/L							U
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LCS (AIL0120-BS1)

Prepared & Analyzed: 12/11/25

Total Suspended Solids	212	10.0	5.0	mg/L	200		106	80-120			
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Duplicate (AIL0120-DUP1)

Source: 2512031-06

Prepared & Analyzed: 12/11/25

Total Suspended Solids	158	20.0	10.0	mg/L		134			16.4	20	
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Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0120 - SM 2540D

Duplicate (AIL0120-DUP2)

Source: 2512072-06

Prepared & Analyzed: 12/11/25

Total Suspended Solids	176	20.0	10.0	mg/L		174			1.14	20	
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Batch AIL0126 - SM2340C

Blank (AIL0126-BLK1)

Prepared & Analyzed: 12/12/25

Total Hardness	ND	5.00	0.475	mg/L							U
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LCS (AIL0126-BS1)

Prepared & Analyzed: 12/12/25

Total Hardness	50.0	5.00	0.475	mg/L	50.0		100	80-120			
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LCS Dup (AIL0126-BSD1)

Prepared & Analyzed: 12/12/25

Total Hardness	50.0	5.00	0.475	mg/L	50.0		100	80-120	0.00	20	
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Duplicate (AIL0126-DUP1)

Source: 2512046-01

Prepared & Analyzed: 12/12/25

Total Hardness	170	5.00	0.475	mg/L		166			2.38	20	
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Matrix Spike (AIL0126-MS1)

Source: 2512046-01

Prepared & Analyzed: 12/12/25

Total Hardness	220	5.00	0.475	mg/L	50.0	166	108	75-125			
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Matrix Spike Dup (AIL0126-MSD1)

Source: 2512046-01

Prepared & Analyzed: 12/12/25

Total Hardness	220	5.00	0.475	mg/L	50.0	166	108	75-125	0.00	20	
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Batch AIL0127 - SM2320B

Blank (AIL0127-BLK1)

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	2.00	5.00	1.68	mg/L							J
Carbonate Alkalinity	ND	5.00	1.68	"							U
Hydroxide Alkalinity	ND	5.00	1.68	"							U
Total Alkalinity	2.00	5.00	1.68	"							J



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
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Date Reported:
12/17/25 14:46

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0127 - SM2320B

LCS (AIL0127-BS1)

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	ND	5.00	1.68	mg/L				80-120			U
Total Alkalinity	100	5.00	1.68	"	100		100	80-120			

LCS Dup (AIL0127-BSD1)

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	ND	5.00	1.68	mg/L				80-120		20	U
Total Alkalinity	100	5.00	1.68	"	100		100	80-120	0.00	20	

Duplicate (AIL0127-DUP1)

Source: 2512043-04

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	2.00	5.00	1.68	mg/L		2.00			0.00	20	J
Carbonate Alkalinity	ND	5.00	1.68	"		ND				20	U
Hydroxide Alkalinity	ND	5.00	1.68	"		ND				20	U
Total Alkalinity	2.00	5.00	1.68	"		2.00			0.00	20	J

Matrix Spike (AIL0127-MS1)

Source: 2512043-04

Prepared & Analyzed: 12/12/25

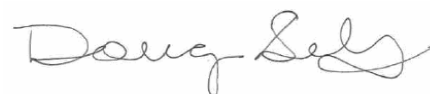
Bicarbonate Alkalinity	ND	5.00	1.68	mg/L		2.00		80-120			U
Total Alkalinity	100	5.00	1.68	"	100	2.00	98.0	80-120			

Matrix Spike Dup (AIL0127-MSD1)

Source: 2512043-04

Prepared & Analyzed: 12/12/25

Bicarbonate Alkalinity	ND	5.00	1.68	mg/L		2.00		80-120		20	U
Total Alkalinity	100	5.00	1.68	"	100	2.00	98.0	80-120	0.00	20	



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0148 - EPA 200.7

Blank (AIL0148-BLK1)

Prepared: 12/13/25 Analyzed: 12/17/25

Boron	ND	25.0	0.5	ug/l							U
Arsenic	ND	2.5	0.4	"							U
Calcium	ND	50.0	34.0	"							U
Copper	ND	2.5	0.2	"							U
Iron	ND	10.0	8.0	"							U
Lead	ND	2.5	0.3	"							U
Magnesium	ND	50.0	14.9	"							U
Manganese	4.50	5.0	0.8	"							J
Sodium	ND	100	43.9	"							U
Zinc	1.10	5.0	0.9	"							J

LCS (AIL0148-BS1)

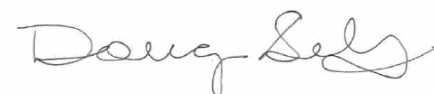
Prepared: 12/13/25 Analyzed: 12/17/25

Boron	487	25.0	0.5	ug/l	500		97.4	85-115			
Arsenic	494	2.5	0.4	"	500		98.8	85-115			
Calcium	507	50.0	34.0	"	500		101	85-115			
Copper	497	2.5	0.2	"	500		99.3	85-115			
Iron	499	10.0	8.0	"	500		99.8	85-115			
Lead	503	2.5	0.3	"	500		101	85-115			
Magnesium	503	50.0	14.9	"	500		101	85-115			
Manganese	497	5.0	0.8	"	500		99.4	85-115			
Sodium	526	100	43.9	"	500		105	85-115			
Zinc	496	5.0	0.9	"	500		99.2	85-115			

LCS Dup (AIL0148-BSD1)

Prepared: 12/13/25 Analyzed: 12/17/25

Boron	494	25.0	0.5	ug/l	500		98.7	85-115	1.33	20	
Arsenic	505	2.5	0.4	"	500		101	85-115	2.16	20	
Calcium	518	50.0	34.0	"	500		104	85-115	2.13	20	
Copper	502	2.5	0.2	"	500		100	85-115	1.14	20	
Iron	507	10.0	8.0	"	500		101	85-115	1.49	20	
Lead	510	2.5	0.3	"	500		102	85-115	1.28	20	
Magnesium	513	50.0	14.9	"	500		103	85-115	1.81	20	
Manganese	504	5.0	0.8	"	500		101	85-115	1.42	20	



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AIL0148 - EPA 200.7

LCS Dup (AIL0148-BSD1)

Prepared: 12/13/25 Analyzed: 12/17/25

Sodium	534	100	43.9	ug/l	500		107	85-115	1.55	20	
Zinc	504	5.0	0.9	"	500		101	85-115	1.62	20	

Matrix Spike (AIL0148-MS1)

Source: 2512082-01

Prepared: 12/13/25 Analyzed: 12/17/25

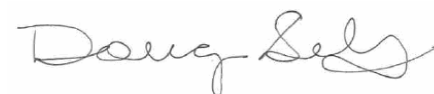
Boron	530	25.0	0.5	ug/l	500	7.00	105	75-125			
Arsenic	518	2.5	0.4	"	500	0.400	103	75-125			
Calcium	32600	100	68.1	"	500	31700	180	75-125			QM-05, R-06
Copper	522	2.5	0.2	"	500	3.70	104	75-125			
Iron	543	10.0	8.0	"	500	38.5	101	75-125			
Lead	497	2.5	0.3	"	500	ND	99.4	75-125			
Magnesium	8440	50.0	14.9	"	500	7880	113	75-125			
Manganese	499	5.0	0.8	"	500	1.00	99.6	75-125			
Sodium	12900	100	43.9	"	500	12400	105	75-125			
Zinc	505	5.0	0.9	"	500	4.00	100	75-125			

Matrix Spike Dup (AIL0148-MSD1)

Source: 2512082-01

Prepared: 12/13/25 Analyzed: 12/17/25

Boron	525	25.0	0.5	ug/l	500	7.00	104	75-125	1.02	25	
Arsenic	513	2.5	0.4	"	500	0.400	103	75-125	0.795	25	
Calcium	32900	100	68.1	"	500	31700	243	75-125	0.967	25	QM-05, R-06
Copper	519	2.5	0.2	"	500	3.70	103	75-125	0.692	25	
Iron	541	10.0	8.0	"	500	38.5	100	75-125	0.351	25	
Lead	494	2.5	0.3	"	500	ND	98.8	75-125	0.646	25	
Magnesium	8490	50.0	14.9	"	500	7880	123	75-125	0.614	25	
Manganese	501	5.0	0.8	"	500	1.00	100	75-125	0.400	25	
Sodium	13000	100	43.9	"	500	12400	118	75-125	0.486	25	
Zinc	502	5.0	0.9	"	500	4.00	99.6	75-125	0.556	25	



Doug Selby, Technical Director

Mayacma Geothermal LLC 245 E Liberty St. STE 520 Reno, NV 89501	Project: Ground Water Project Number: Ground Water Project Manager: Lucas Peters	Date Reported: 12/17/25 14:46
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Notes and Definitions

Z-01b Corrected Temperature: 23.0

Z-01a Corrected Temperature: 22.6

Z-01 Corrected Temperature: 22.3

U Undetected

R-06 This sample was diluted due to high analyte concentration, resulting in an elevated reporting limit.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

O-04 This sample was analyzed outside the EPA recommended holding time.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Field This analyte was analyzed outside of the EPA recommended hold time of 15 minutes and should be analyzed in the field.

ND Analyte not detected at the reporting limit.

NR Not reported

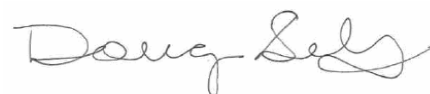
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How did we do today?

Your feedback helps us improve our service and takes less than a minute to complete.

START SURVEY



Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St, STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46

SGS		1135 West Sunset Blvd., STE A, Rocklin, CA 95765 Phone (916) 543-4445		CHAIN-OF-CUSTODY-RECORD	
WWW.SGS.COM		Page 1 of 1			
Report Results To:	Report Attention: Lucas Peters Company: Mayacma Geothermal LLC Mailing Address: 245 E Liberty St STE 520 City, State, Zip: Reno, NV 89501 Phone: 585-752-6821 Email / Fax: Lucas@Openmountainenergy.com	Project Number:	Ground Water		
Send Invoice To:	Invoice Attention: Accounts Payable Company: Mayacma Geothermal LLC Mailing Address: 245 E Liberty St STE 520 City, State, Zip: Reno, NV 89501 Phone: Email / Fax: Accounting@openmountainenergy.com	PO#	Quote #		
		COMPLIANCE MONITORING?		NEW ADDRESS?	
		Yes ☒ No ☐ SDWA ☐ CWA ☐ RCRA ☐ Mining ☐ Other ☐ CEC		Results: ☐ Invoice: ☐	
		Applicable Program QC Level Report I II III IV NOTE: Surcharges apply to Level I, II and IV reports			
Sampled by: Lucas Peters Signature: Lucas Peters I attest to the validity and authenticity of the sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time is considered fraud and may be grounds for legal action.		ANALYSES REQUESTED For both samples: See quote 2025 896, minus the TCF Metals Qty 10 ICP (XMET/ICP10), EPA 200.7 As, B, Ca, Cu, Fe, Pb, Mg, Mn, Na, Zn Metals Digestion (METDIG), NA pH (PH), SM20 4500H B Specific Conductance (SCON), SM2510B Alkalinity, Carbonate, Bicarbonate (XCARBICALK), NA Total Suspended Solids (TSS), SM 2540D Turbidity (TURB), EPA 180.1 Hydroxide Alkalinity (OHALK), SM 2320B-2011 Hardness, Total (HRD), SM 2340C Nitrogen, Nitrate by Ion Chromatography (NO3OIC300), EPA 300.0 Sulfate by Ion Chromatography (SO4IC300), EPA 300.0			
Standard: ☒ Standard TAT 10 Business Days. Note that some tests vary. Rush Same Day: ☐ 3 Day: ☐ Other (specify): ☐ 1 Day: ☐ 4 Day: ☐ Rush results will be issued after 4:00 p.m. 2 Day: ☐ 5 Day: ☐ NOTE: A Rush Surcharge is applied for rush samples		Other Pertinent Information / Special Instructions Please provide Excel and PDF versions of the report.			
Date Sampled	Time Sampled	Sample Identification	Lab No.	Comp. Grab	Matrix*
12/4/25	12:35	GW-1			GW
	10:40	GW-3 / Pump House One			GW
			2512042		
			Bin: D-12		
Signature		Print Name		Company	Date
Relinquished By: Lucas Peters		Signature: Lucas Peters		Mayacma	12/5/25
Received By: Aradhana Singh		Signature: Aradhana Singh		SGS	12/05/25
Relinquished By:					2:01 pm
Received By:					2:12 pm
Relinquished By:					
Received By:					
Authorized By:					
Authorization is required to process samples. This obligates your organization for service fees. SGS Standard T & C's or other written agreement applies. If collections or legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees. Matrix* DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other Preservative** 1=H ₂ SO ₄ , 2=HNO ₃ , 3=HCl, 4=NaOH, 5=Na ₂ S ₂ O ₃ , 6=None, 7=Other Container*** P-Plastic, G-Glass, V-Voa Vial, OT-Other					

Doug Selby

Doug Selby, Technical Director

Mayacma Geothermal LLC
245 E Liberty St. STE 520
Reno, NV 89501

Project: Ground Water
Project Number: Ground Water
Project Manager: Lucas Peters

Date Reported:
12/17/25 14:46



SGS - Rocklin
Sample Integrity
FN: F-ROC-SC-001-01
Rev. Date: 10/02/2025
Page 161 of 200

Sample Integrity Form

Company Name: Mayacma Geothermal LLC WORK ORDER: 2512042
Date Received: 12/05/2025 New Client: Y (N)

Section 1 – Sample Arrival Information	
Sample Transport:	Fed-Ex ☐ SGS Courier ☐ UPS ☐ <u>Walk-In</u> ☒ Other: _____
Transported In:	<u>Ice Chest</u> ☒ Box ☐ Hand ☐ Other: _____
Packing materials:	Bubble Wrap ☐ Foam ☐ Packing Peanuts ☐ Paper ☐ Other: _____
Has chilling process begun?	<u>Y</u> ☒ N ☐ Samples Received: <u>Chilled to Touch</u> ☒ Ambient ☐ <u>On Ice</u> ☒
Temperature of Samples (°C):	<u>8.1°C/8.0°C</u> Ice Chest Temperature(s) (°C): <u>2.4°C/2.3°C</u>
Thermometer ID:	<u>DT-19</u> CF (°C): <u>-0.1°C</u>

Section 2 – Bottle/Analysis Information		Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?		☒	☐	☐	
Did all bottle labels agree with COC?		☒	☐	☐	
Were correct containers used for the tests requested?		☒	☐	☐	
Were correct preservations used for the tests requested?		☒	☐	☐	
Was a sufficient amount of sample sent for tests indicated?		☒	☐	☐	
Were bubbles present in VOA Vials?: (Volatile Methods Only)		☐	☐	☒	
Is there head space in the VOA vials? (Volatile Methods Only)		☐	☐	☒	

Section 3 – COC Information		Yes	No	Comments	Yes	No
COC Received	☒	☐		Analysis Requested	☒	☐
Date Sampled	☒	☐		Samples arrived within holding time	☒	☐
Time Sampled	☒	☐		Hold times less than 72 hours	☒	☐
Sample ID	☒	☐		Client Name	☒	☐
Rush Turn Around Time	☐	☒		Client Contact Information	☒	☐

SHORT HOLD LIST (<72 hours)							
pH	Chlorine	Corrosivity	Coliform	Dissolved Oxygen	Odor	<u>Nitrate</u>	Nitrite
MBAs	Asbestos	Settable Solids	Turbidity	Biochemical Oxygen Demand	HPC	Color	Tedlars
							Ortho-phosphate
							Ammonia/TKN (unpreserved)

Section 4 – Comments / Discrepancies	
Client notified of discrepancies: Yes / No	Notified by:
Comments:	

Bin Number/ Location:	<u>SLC 12-8-25</u>	Filled out by:	<u>Aradhana Singh</u>	Date:	<u>12/05/25</u>
COC Scanned/Attached by:	<u>SLC</u>			Time:	<u>2:29 PM</u>
Samples labeled by:	<u>SLC</u>				
Sample labels reviewed by:	<u>SLC</u>				

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START SURVEY

Doug Selby

Doug Selby, Technical Director