



SGS Silver State Analytical Laboratories
3626 E. Sunset Road, Suite 100
Las Vegas, NV 89120
(702) 873-4478
www.ssalabs.com

July 24, 2024

Randy Sharpe
H2 Analytics
2505 Anthem Village Dr Ste E385
Henderson, NV 89052

Lab ID:
Las Vegas, NV (NV930, CA3029)

Project: H2A-24-0612-2

Workorder No.: 24061235

Dear Randy Sharpe:

SGS Silver State Analytical Laboratories received 1 sample(s) on 6/27/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted below. Analytical results reported as non-detect (ND) in the result field are below the Practical Quantification Limit (PQL). Analytical results above the PQL are reported as the measured value in the results field.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads 'Michael Mitchell'.

Michael Mitchell
Laboratory Director
3626 E. Sunset Road, Suite 100
Las Vegas, NV 89120

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Original



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Analytical Report

WO#: 24061235

Date Reported: 7/24/2024

CLIENT: H2 Analytics **Collection Date:** 6/27/2024 7:45:00 AM
Project: H2A-24-0612-2
Lab ID: 24061235-01 **Matrix:** DRINKING WATER
Client Sample ID Nord Hydrogen

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
DOMESTIC WATER PANEL ANIONS-SDWA (CL, F, NO2, NO3, SO4)				EPA 300.0		Analyst: JG	
Chloride	0.125	0.100		mg/L	400	1	6/28/2024 10:49:00 AM
Fluoride	< 0.100	0.100		mg/L	4.00	1	6/28/2024 10:49:00 AM
Nitrate as N	< 0.100	0.100		mg/L	10.0	1	6/28/2024 10:49:00 AM
Nitrite as N	< 0.100	0.100		mg/L	1.00	1	6/28/2024 10:49:00 AM
Sulfate	< 0.100	0.100		mg/L	500	1	6/28/2024 10:49:00 AM
COLOR - APPARENT - SDWA				SM 2120 B		Analyst: DT	
Color	< 1.00	1.00	H	Pt-Co	15.0	1	7/1/2024 8:56:00 AM
CYANIDE, FREE-SDWA				SM 4500CN E		Analyst: DT	
Cyanide, Free	< 0.0500	0.0500		mg/L	0.20	1	7/1/2024 2:24:00 PM
DOMESTIC WATER PANEL HARDNESS (TOTAL) - SDWA, CALCULATION ONLY.				SM 2340 B		Analyst: KK	
Hardness (As CaCO3)	ND	1.00		mg/L		1	7/17/2024 10:17:00 AM
Hardness, Calcium (As CaCO3)	ND	1.00		mg/L		1	7/17/2024 10:17:00 AM
Hardness, Magnesium (As CaCO3)	ND	1.00		mg/L		1	7/17/2024 10:17:00 AM
MBAS (SURFACTANTS) - SDWA				SM 5540 C		Analyst: DT	
MBAS (surfactants)	< 0.0690	0.0690		mg/L	0.50	1	6/28/2024 8:05:00 AM
ODOR - SDWA				SM 2150 B		Analyst: KK	
Odor	8.2	1.00		T.O.N.	3.00	1	6/27/2024 4:33:00 PM
DOMESTIC WATER PANEL PH - SDWA				SM 4500H+ B		Analyst: EAT	
pH	4.89		H	pH Units	8.50	1	6/29/2024 5:36:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
(Qual) H Holding times for preparation or analysis exceeded.
ND Not Detected at the PQL.

DF Dilution Factor.
MCL Maximum Contaminant Level.
PQL Practical Quantitation Limit.

Original



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Project: H2A-24-0612-2
Lab ID: 24061235-01 **Matrix:** DRINKING WATER
Client Sample ID Nord Hydrogen

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
METALS 200.8					EPA 200.8		Analyst: AL
Antimony	<0.001	0.0010		mg/L		1	7/9/2024 4:03:00 PM
METALS - PRECIOUS					EPA 6010B		Analyst: AR
Platinum	< 0.200	0.200		mg/Kg		1	7/23/2024 12:56:16 PM
METALS-SDWA 200.7					EPA 200.7		Analyst: AR
Aluminum	< 0.0500	0.0500		mg/L	0.20	1	7/12/2024 12:55:00 PM
Boron	< 0.0500	0.0500		mg/L		1	7/12/2024 12:55:00 PM
Calcium	< 1.00	1.00		mg/L		1	7/12/2024 12:55:00 PM
Iron	< 0.100	0.100		mg/L	0.60	1	7/12/2024 12:55:00 PM
Magnesium	< 1.00	1.00		mg/L	150	1	7/12/2024 12:55:00 PM
Silica, Dissolved (as SiO ₂)	< 0.100	0.100		mg/L		1	7/19/2024 3:34:07 PM
Sodium	< 1.00	1.00		mg/L		1	7/12/2024 12:55:00 PM
Titanium	< 0.100	0.100		mg/L		1	7/19/2024 2:56:29 PM
DOMESTIC WATER PANEL					EPA 200.8		Analyst: AR
METALS-SDWA 200.8							
Arsenic	< 1.00	1.00		µg/L	10.0	1	7/11/2024 2:11:50 PM
Barium	< 1.00	1.00		µg/L		1	7/11/2024 2:11:50 PM
Beryllium	< 1.00	1.00		µg/L		1	7/10/2024 1:11:54 PM
Cadmium	< 1.00	1.00		µg/L		1	7/11/2024 2:11:50 PM
Chromium	< 1.00	1.00		µg/L		1	7/11/2024 2:11:50 PM
Copper	< 1.00	1.00		µg/L	1000	1	7/11/2024 2:11:50 PM
Lead	< 1.00	1.00		µg/L	15.0	1	7/11/2024 2:11:50 PM
Manganese	< 1.00	1.00		µg/L	100	1	7/11/2024 2:11:50 PM
Nickel	< 1.00	1.00		µg/L		1	7/11/2024 2:11:50 PM
Selenium	< 1.00	1.00		µg/L		1	7/11/2024 2:11:50 PM
Silver	< 1.00	1.00	S	µg/L		1	7/11/2024 2:11:50 PM
Zinc	< 1.00	1.00		µg/L	5000	1	7/11/2024 2:11:50 PM

Qualifiers: B Analyte detected in the associated Method Blank
(Qual) H Holding times for preparation or analysis exceeded.
ND Not Detected at the PQL.

DF Dilution Factor.
MCL Maximum Contaminant Level.
PQL Practical Quantitation Limit.

Original

[illegible]

Standard: ☒ Standard 1741 / 1-10 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 IHSA Certification Profile B			
Number / Type of Containers			
s, pH			
s, Hardness			
Odor			
s, Silica			
3-200.8, 200.7, Precip			
de-Free			
Send Invoice Via:			
Mail: ☐		Email: ☒ Fax: ☐	
Field Measurements			
On-Site pH:		Chlorine:	

[illegible]

	Company	Date	Time
Relinquished By:	Randy Sharpe	6/27/2024	12:39 PM
Received By:			
Relinquished By:	SSS	6/28/24	1234
Received By:			
Relinquished By:			
Received By:			
Authorized By:	Randy Sharpe	6/27/2024	12:39 PM

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=Na₂S₂O₃, 6=None, 7=Other	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-Voa Vial, OT-Other
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Container^{***} P-Plastic, G-Glass, V-Voa Vial, OT-Other



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Definitions & Qualifiers

WO#: 24061235

Date: 7/24/2024

Definitions:

LCS: Laboratory Control Sample; prepared by adding a known mass of target analytes to a specified amount of de-ionized water and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: LCS Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

MBLK: Method Blank; a sample of similar matrix that is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

MS: Matrix Spike; prepared by adding a known mass of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: Matrix Spike Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

RPD: Relative Percent Difference; comparison between sample and duplicate and/or MS and MSD.

PQL: Practical Quantitation Limit; the limit to which data is quantitated for reporting.

MDL: Method Detection Limit; the limit to which the instrument can reliably detect.

MCL: Maximum Contaminant Level; value set according to EPA guidelines.

Qualifiers:

* - Analyte exceeds Safe Drinking Water Act MCL, does not meet drinking water standards.

C - Analyte value below Safe Drinking Water Act MCL, does not meet drinking water standards.

B - Analyte found above the PQL in associated method blank.

G - Calibration blank analyte detected above PQL.

H - Sample analyzed beyond holding time for this parameter.

J - Estimated Value; Analyte found between MDL and PQL limits.

L - Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.

R - RPD between sample and duplicate sample outside the RPD acceptance limits.

S - Batch MS and/or MSD were outside acceptance limits, batch LCS was acceptable.

W - Sample temperature when received was out of limit as specified by method.

Z - Batch LCS and/or LCSD were outside acceptance limits.