



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

June 18, 2024

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

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

Project: H2A-240521-1

Workorder No.: 24051254

Dear Randy Sharpe:

SGS Silver State Analytical Laboratories received 5 sample(s) on 5/28/2024 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

ssalabs.com

Original



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Analytical Report

WO#: 24051254
 Date Reported: 6/18/2024

CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-01 **Matrix:** AQUEOUS
Client Sample ID: Echo H2 Pitcher

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	0.293	0.100		mg/L	400	1	5/28/2024 3:20:00 PM
Fluoride	< 0.100	0.100		mg/L	4.00	1	5/28/2024 3:20:00 PM
Nitrate as N	< 0.100	0.100		mg/L	10.0	1	5/28/2024 3:20:00 PM
Nitrite as N	< 0.100	0.100		mg/L	1.00	1	5/28/2024 3:20:00 PM
Sulfate	< 0.100	0.100		mg/L	500	1	5/28/2024 3:20:00 PM
COLOR - APPARENT - SDWA					SM 2120 B	Analyst: JG	
Color	< 1.00	1.00		Pt-Co	15.0	1	5/28/2024 1:17:00 PM
CYANIDE, FREE-SDWA					SM 4500CN E	Analyst: DT	
Cyanide, Free	< 0.0500	0.0500		mg/L	0.20	1	6/4/2024 10:39:00 AM
DOMESTIC WATER PANEL HARDNESS (TOTAL) - SDWA, CALCULATION ONLY.					SM 2340 B	Analyst: JG	
Hardness (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Calcium (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Magnesium (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
MBAS (SURFACTANTS) - SDWA					SM 5540 C	Analyst: KK	
MBAS (surfactants)	< 0.138	0.138		mg/L	0.50	2	5/30/2024 8:05:00 AM
ODOR - SDWA					SM 2150 B	Analyst: JG	
Odor	4.8	1.00		T.O.N.	3.00	1	5/28/2024 9:52:00 AM
DOMESTIC WATER PANEL PH - SDWA					SM 4500H+ B	Analyst: LJ	
pH	5.79		CH	pH Units	8.50	1	5/30/2024 11:22:00 AM

Qualifiers: * Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank
 (Qual) C Value is below Minimum Compound Limit. DF Dilution Factor.
 H Holding times for preparation or analysis exceeded. MCL Maximum Contaminant Level.
 ND Not Detected at the PQL. PQL Practical Quantitation Limit.

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Project: H2A-240521-1
Lab ID: 24051254-01 **Matrix:** AQUEOUS
Client Sample ID: Echo H2 Pitcher

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
SILICA, REACTIVE (COLORMETRIC)					SM 4500SIO2 C	Analyst: DT	
Silica, Dissolved (as SiO2)	ND	1.00	S	mg/L	1		6/17/2024 5:02:00 PM
DW TURBIDITY CHECK					EPA 200.8	Analyst: AL	
Digestion Turbidity Check	<1	1.0		NTU	1		5/29/2024 3:56:37 PM
METALS 200.8					EPA 200.8	Analyst: AL	
Antimony	<0.001	0.0010		mg/L	1		6/17/2024 5:22:00 PM
METALS, 200.7 - CWA					EPA 200.7	Analyst: JG	
Aluminum	< 0.0500	0.0500		mg/L	1		5/31/2024 12:50:27 PM
Boron	< 0.0500	0.0500		mg/L	1		5/31/2024 12:50:27 PM
Titanium	< 0.0200	0.0200		mg/L	1		5/31/2024 4:08:38 PM
METALS - PRECIOUS					EPA 6010B	Analyst: JG	
Platinum	< 0.200	0.200		mg/Kg	1		6/4/2024 3:58:49 PM
DOMESTIC WATER PANEL METALS-SDWA 200.7					EPA 200.7	Analyst: JG	
Calcium	< 1.00	1.00	S	mg/L	1		5/31/2024 12:06:18 PM
Iron	< 0.100	0.100		mg/L	0.60	1	5/31/2024 12:06:18 PM
Magnesium	< 1.00	1.00	S	mg/L	150	1	5/31/2024 12:06:18 PM
Sodium	< 1.00	1.00	S	mg/L	1		5/31/2024 12:06:18 PM
DOMESTIC WATER PANEL METALS-SDWA 200.8					EPA 200.8	Analyst: AR	
Arsenic	< 1.00	1.00		µg/L	10.0	1	5/30/2024 7:11:08 PM
Copper	< 1.00	1.00		µg/L	1000	1	5/30/2024 7:11:08 PM

Qualifiers: * Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank
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CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-01 **Matrix:** AQUEOUS
Client Sample ID: Echo H2 Pitcher

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
DOMESTIC WATER PANEL				EPA 200.8		Analyst: AR	
METALS-SDWA 200.8							
Lead	< 1.00	1.00		µg/L	15.0	1	5/30/2024 7:11:08 PM
Manganese	< 1.00	1.00		µg/L	100	1	5/30/2024 7:11:08 PM
Zinc	< 1.00	1.00		µg/L	5000	1	5/30/2024 7:11:08 PM
METALS-SDWA 200.8				EPA 200.8		Analyst: AR	
Barium	< 1.00	1.00		µg/L	2000	1	5/30/2024 8:51:35 PM
Beryllium	< 1.00	1.00		µg/L	4.00	1	5/30/2024 8:51:35 PM
Cadmium	< 1.00	1.00		µg/L	5.00	1	5/30/2024 8:51:35 PM
Chromium	1.33	1.00		µg/L	100	1	5/30/2024 8:51:35 PM
Nickel	< 1.00	1.00		µg/L		1	5/30/2024 8:51:35 PM
Selenium	< 1.00	1.00		µg/L	50.0	1	5/30/2024 8:51:35 PM
Silver	< 1.00	1.00		µg/L	100	1	5/30/2024 8:51:35 PM

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(Qual)**

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WO#: 24051254
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CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-02 **Matrix:** AQUEOUS
Client Sample ID: Echo Server

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	0.157	0.100		mg/L	400	1	5/28/2024 4:29:00 PM
Fluoride	< 0.100	0.100		mg/L	4.00	1	5/28/2024 4:29:00 PM
Nitrate as N	< 0.100	0.100		mg/L	10.0	1	5/28/2024 4:29:00 PM
Nitrite as N	< 0.100	0.100		mg/L	1.00	1	5/28/2024 4:29:00 PM
Sulfate	< 0.100	0.100		mg/L	500	1	5/28/2024 4:29:00 PM
COLOR - APPARENT - SDWA			SM 2120 B		Analyst: JG		
Color	< 1.00	1.00		Pt-Co	15.0	1	5/28/2024 1:17:00 PM
CYANIDE, FREE-SDWA			SM 4500CN E		Analyst: DT		
Cyanide, Free	< 0.0500	0.0500		mg/L	0.20	1	6/4/2024 10:39:00 AM
DOMESTIC WATER PANEL HARDNESS (TOTAL) - SDWA, CALCULATION ONLY.			SM 2340 B		Analyst: JG		
Hardness (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Calcium (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Magnesium (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
MBAS (SURFACTANTS) - SDWA			SM 5540 C		Analyst: KK		
MBAS (surfactants)	< 0.138	0.138		mg/L	0.50	2	5/30/2024 8:05:00 AM
ODOR - SDWA			SM 2150 B		Analyst: JG		
Odor	No Odor Detected	1.00		T.O.N.	3.00	1	5/28/2024 9:52:00 AM
DOMESTIC WATER PANEL PH - SDWA			SM 4500H+ B		Analyst: LJ		
pH	3.74		CH	pH Units	8.50	1	5/30/2024 11:22:00 AM

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CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-02 **Matrix:** AQUEOUS
Client Sample ID: Echo Server

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
SILICA, REACTIVE (COLORMETRIC)					SM 4500SIO2 C	Analyst: DT	
Silica, Dissolved (as SiO2)	ND	1.00	S	mg/L	1		6/17/2024 5:02:00 PM
DW TURBIDITY CHECK					EPA 200.8	Analyst: AL	
Digestion Turbidity Check	<1	1.0		NTU	1		5/29/2024 3:56:37 PM
METALS 200.8					EPA 200.8	Analyst: AL	
Antimony	<0.001	0.0010		mg/L	1		6/17/2024 5:33:00 PM
METALS, 200.7 - CWA					EPA 200.7	Analyst: JG	
Aluminum	< 0.0500	0.0500		mg/L	1		5/31/2024 12:53:36 PM
Boron	< 0.0500	0.0500		mg/L	1		5/31/2024 12:53:36 PM
Titanium	< 0.0200	0.0200		mg/L	1		5/31/2024 4:11:02 PM
METALS - PRECIOUS					EPA 6010B	Analyst: JG	
Platinum	< 0.200	0.200		mg/Kg	1		6/4/2024 4:15:56 PM
DOMESTIC WATER PANEL METALS-SDWA 200.7					EPA 200.7	Analyst: JG	
Calcium	< 1.00	1.00	S	mg/L	1		5/31/2024 12:09:27 PM
Iron	< 0.100	0.100		mg/L	0.60	1	5/31/2024 12:09:27 PM
Magnesium	< 1.00	1.00	S	mg/L	150	1	5/31/2024 12:09:27 PM
Sodium	< 1.00	1.00	S	mg/L	1		5/31/2024 12:09:27 PM
DOMESTIC WATER PANEL METALS-SDWA 200.8					EPA 200.8	Analyst: AR	
Arsenic	< 1.00	1.00		µg/L	10.0	1	5/30/2024 7:15:47 PM
Copper	< 1.00	1.00		µg/L	1000	1	5/30/2024 7:15:47 PM

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Lab ID: 24051254-02
Client Sample ID: Echo Server

Collection Date: 5/28/2024 9:10:00 AM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
DOMESTIC WATER PANEL METALS-SDWA 200.8				EPA 200.8		Analyst: AR	
Lead	< 1.00	1.00		µg/L	15.0	1	5/30/2024 7:15:47 PM
Manganese	< 1.00	1.00		µg/L	100	1	5/30/2024 7:15:47 PM
Zinc	2.19	1.00		µg/L	5000	1	5/30/2024 7:15:47 PM
METALS-SDWA 200.8				EPA 200.8		Analyst: AR	
Barium	< 1.00	1.00		µg/L	2000	1	5/30/2024 8:56:13 PM
Beryllium	< 1.00	1.00		µg/L	4.00	1	5/30/2024 8:56:13 PM
Cadmium	< 1.00	1.00		µg/L	5.00	1	5/30/2024 8:56:13 PM
Chromium	1.30	1.00		µg/L	100	1	5/30/2024 8:56:13 PM
Nickel	< 1.00	1.00		µg/L		1	5/30/2024 8:56:13 PM
Selenium	< 1.00	1.00		µg/L	50.0	1	5/30/2024 8:56:13 PM
Silver	< 1.00	1.00		µg/L	100	1	5/30/2024 8:56:13 PM

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CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-03 **Matrix:** AQUEOUS
Client Sample ID: Echo H2 Machine

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	2.37	0.100		mg/L	400	1	5/28/2024 5:38:00 PM
Fluoride	< 0.100	0.100		mg/L	4.00	1	5/28/2024 5:38:00 PM
Nitrate as N	< 0.100	0.100		mg/L	10.0	1	5/28/2024 5:38:00 PM
Nitrite as N	< 0.100	0.100		mg/L	1.00	1	5/28/2024 5:38:00 PM
Sulfate	< 0.100	0.100		mg/L	500	1	5/28/2024 5:38:00 PM
COLOR - APPARENT - SDWA					SM 2120 B	Analyst: JG	
Color	30.0	1.00	*	Pt-Co	15.0	1	5/28/2024 1:17:00 PM
CYANIDE, FREE-SDWA					SM 4500CN E	Analyst: DT	
Cyanide, Free	< 0.0500	0.0500		mg/L	0.20	1	6/4/2024 10:39:00 AM
DOMESTIC WATER PANEL HARDNESS (TOTAL) - SDWA, CALCULATION ONLY.					SM 2340 B	Analyst: JG	
Hardness (As CaCO3)	4.27	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Calcium (As CaCO3)	4.27	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Magnesium (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
MBAS (SURFACTANTS) - SDWA					SM 5540 C	Analyst: KK	
MBAS (surfactants)	< 0.138	0.138		mg/L	0.50	2	5/30/2024 8:05:00 AM
ODOR - SDWA					SM 2150 B	Analyst: JG	
Odor	No Odor Detected	1.00		T.O.N.	3.00	1	5/28/2024 9:52:00 AM
DOMESTIC WATER PANEL PH - SDWA					SM 4500H+ B	Analyst: LJ	
pH	5.71		CH	pH Units	8.50	1	5/30/2024 11:22:00 AM

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CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-03 **Matrix:** AQUEOUS
Client Sample ID: Echo H2 Machine

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
SILICA, REACTIVE (COLORMETRIC)					SM 4500SIO2 C	Analyst: DT	
Silica, Dissolved (as SiO2)	1.84	1.00	S	mg/L	1	6/17/2024 5:02:00 PM	
DW TURBIDITY CHECK					EPA 200.8	Analyst: AL	
Digestion Turbidity Check	<1	1.0		NTU	1	5/29/2024 3:56:37 PM	
METALS 200.8					EPA 200.8	Analyst: AL	
Antimony	<0.001	0.0010		mg/L	1	6/17/2024 5:35:00 PM	
METALS, 200.7 - CWA					EPA 200.7	Analyst: JG	
Aluminum	< 0.0500	0.0500		mg/L	1	5/31/2024 12:56:46 PM	
Boron	< 0.0500	0.0500		mg/L	1	5/31/2024 12:56:46 PM	
Titanium	< 0.0200	0.0200		mg/L	1	5/31/2024 4:13:26 PM	
METALS - PRECIOUS					EPA 6010B	Analyst: JG	
Platinum	< 0.200	0.200		mg/Kg	1	6/4/2024 4:20:12 PM	
DOMESTIC WATER PANEL METALS-SDWA 200.7					EPA 200.7	Analyst: JG	
Calcium	1.71	1.00		mg/L	1	5/31/2024 1:25:08 PM	
Iron	< 0.100	0.100		mg/L	0.60 1	5/31/2024 1:25:08 PM	
Magnesium	< 1.00	1.00		mg/L	150 1	5/31/2024 1:25:08 PM	
Sodium	2.04	1.00		mg/L	1	5/31/2024 1:25:08 PM	
DOMESTIC WATER PANEL METALS-SDWA 200.8					EPA 200.8	Analyst: AR	
Arsenic	< 1.00	1.00		µg/L	10.0 1	5/30/2024 9:00:00 PM	
Copper	1.30	1.00		µg/L	1000 1	5/30/2024 9:00:00 PM	

Qualifiers:
(Qual)

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Project: H2A-240521-1
Lab ID: 24051254-03 **Matrix:** AQUEOUS
Client Sample ID: Echo H2 Machine

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
DOMESTIC WATER PANEL				EPA 200.8		Analyst: AR	
METALS-SDWA 200.8							
Lead	< 1.00	1.00		µg/L	15.0	1	5/30/2024 9:00:00 PM
Manganese	1.99	1.00		µg/L	100	1	5/30/2024 9:00:00 PM
Zinc	45.1	1.00		µg/L	5000	1	5/30/2024 9:00:00 PM
METALS-SDWA 200.8				EPA 200.8		Analyst: AR	
Barium	< 1.00	1.00		µg/L	2000	1	5/30/2024 9:00:47 PM
Beryllium	< 1.00	1.00		µg/L	4.00	1	5/30/2024 9:00:47 PM
Cadmium	< 1.00	1.00		µg/L	5.00	1	5/30/2024 9:00:47 PM
Chromium	1.25	1.00		µg/L	100	1	5/30/2024 9:00:47 PM
Nickel	< 1.00	1.00		µg/L		1	5/30/2024 9:00:47 PM
Selenium	< 1.00	1.00		µg/L	50.0	1	5/30/2024 9:00:47 PM
Silver	< 1.00	1.00		µg/L	100	1	5/30/2024 9:00:47 PM

**Qualifiers:
(Qual)**

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Analytical Report

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 Date Reported: 6/18/2024

CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-04 **Matrix:** AQUEOUS
Client Sample ID: Echo Ultimate

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	4.70	0.100		mg/L	400	1	5/28/2024 6:01:00 PM
Fluoride	< 0.100	0.100		mg/L	4.00	1	5/28/2024 6:01:00 PM
Nitrate as N	0.108	0.100		mg/L	10.0	1	5/28/2024 6:01:00 PM
Nitrite as N	< 0.100	0.100		mg/L	1.00	1	5/28/2024 6:01:00 PM
Sulfate	0.902	0.100		mg/L	500	1	5/28/2024 6:01:00 PM
COLOR - APPARENT - SDWA					SM 2120 B	Analyst: JG	
Color	20.0	1.00	*	Pt-Co	15.0	1	5/28/2024 1:17:00 PM
CYANIDE, FREE-SDWA					SM 4500CN E	Analyst: DT	
Cyanide, Free	< 0.0500	0.0500		mg/L	0.20	1	6/4/2024 10:39:00 AM
DOMESTIC WATER PANEL HARDNESS (TOTAL) - SDWA, CALCULATION ONLY.					SM 2340 B	Analyst: JG	
Hardness (As CaCO3)	4.02	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Calcium (As CaCO3)	4.02	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Magnesium (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
MBAS (SURFACTANTS) - SDWA					SM 5540 C	Analyst: KK	
MBAS (surfactants)	< 0.138	0.138		mg/L	0.50	2	5/30/2024 8:05:00 AM
ODOR - SDWA					SM 2150 B	Analyst: JG	
Odor	No Odor Detected	1.00		T.O.N.	3.00	1	5/28/2024 9:52:00 AM
DOMESTIC WATER PANEL PH - SDWA					SM 4500H+ B	Analyst: LJ	
pH	5.80		CH	pH Units	8.50	1	5/30/2024 11:22:00 AM

Qualifiers: * Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank
 (Qual) C Value is below Minimum Compound Limit. DF Dilution Factor.
 H Holding times for preparation or analysis exceeded. MCL Maximum Contaminant Level.
 ND Not Detected at the PQL. PQL Practical Quantitation Limit.

Original



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

Analytical Report

WO#: 24051254
 Date Reported: 6/18/2024

CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-04 **Matrix:** AQUEOUS
Client Sample ID: Echo Ultimate

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
SILICA, REACTIVE (COLORMETRIC)					SM 4500SIO2 C	Analyst: DT	
Silica, Dissolved (as SiO2)	ND	1.00	S	mg/L	1		6/17/2024 5:02:00 PM
DW TURBIDITY CHECK					EPA 200.8	Analyst: AL	
Digestion Turbidity Check	<1	1.0		NTU	1		5/29/2024 3:56:37 PM
METALS 200.8					EPA 200.8	Analyst: AL	
Antimony	<0.001	0.0010		mg/L	1		6/17/2024 5:38:00 PM
METALS, 200.7 - CWA					EPA 200.7	Analyst: JG	
Aluminum	< 0.0500	0.0500		mg/L	1		5/31/2024 12:59:55 PM
Boron	< 0.0500	0.0500		mg/L	1		5/31/2024 12:59:55 PM
Titanium	< 0.0200	0.0200		mg/L	1		5/31/2024 4:15:50 PM
METALS - PRECIOUS					EPA 6010B	Analyst: JG	
Platinum	< 0.200	0.200		mg/Kg	1		6/4/2024 4:24:28 PM
DOMESTIC WATER PANEL METALS-SDWA 200.7					EPA 200.7	Analyst: JG	
Calcium	1.61	1.00		mg/L	1		5/31/2024 1:28:17 PM
Iron	< 0.100	0.100		mg/L	0.60	1	5/31/2024 1:28:17 PM
Magnesium	< 1.00	1.00		mg/L	150	1	5/31/2024 1:28:17 PM
Sodium	1.80	1.00		mg/L	1		5/31/2024 1:28:17 PM
DOMESTIC WATER PANEL METALS-SDWA 200.8					EPA 200.8	Analyst: AR	
Arsenic	< 1.00	1.00		µg/L	10.0	1	5/30/2024 9:05:00 PM
Copper	1.16	1.00		µg/L	1000	1	5/30/2024 9:05:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank
 (Qual) C Value is below Minimum Compound Limit. DF Dilution Factor.
 H Holding times for preparation or analysis exceeded. MCL Maximum Contaminant Level.
 ND Not Detected at the PQL. PQL Practical Quantitation Limit.

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Analytical Report

WO#: 24051254
 Date Reported: 6/18/2024

CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-04 **Matrix:** AQUEOUS
Client Sample ID: Echo Ultimate

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
DOMESTIC WATER PANEL				EPA 200.8		Analyst: AR	
METALS-SDWA 200.8							
Lead	< 1.00	1.00		µg/L	15.0	1	5/30/2024 9:05:00 PM
Manganese	5.90	1.00		µg/L	100	1	5/30/2024 9:05:00 PM
Zinc	675	1.00		µg/L	5000	1	5/31/2024 5:45:18 PM
METALS-SDWA 200.8				EPA 200.8		Analyst: AR	
Barium	< 1.00	1.00		µg/L	2000	1	5/30/2024 9:05:24 PM
Beryllium	< 1.00	1.00		µg/L	4.00	1	5/30/2024 9:05:24 PM
Cadmium	< 1.00	1.00		µg/L	5.00	1	5/30/2024 9:05:24 PM
Chromium	1.20	1.00		µg/L	100	1	5/30/2024 9:05:24 PM
Nickel	< 1.00	1.00		µg/L		1	5/30/2024 9:05:24 PM
Selenium	< 1.00	1.00		µg/L	50.0	1	5/30/2024 9:05:24 PM
Silver	< 1.00	1.00		µg/L	100	1	5/30/2024 9:05:24 PM

**Qualifiers:
(Qual)**

- * Value exceeds Maximum Contaminant Level.
- C Value is below Minimum Compound Limit.
- H Holding times for preparation or analysis exceeded.
- ND Not Detected at the PQL.
- B Analyte detected in the associated Method Blank
- DF Dilution Factor.
- MCL Maximum Contaminant Level.
- PQL Practical Quantitation Limit.

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Analytical Report

WO#: 24051254
 Date Reported: 6/18/2024

CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-05 **Matrix:** AQUEOUS
Client Sample ID: Echo RO

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	0.265	0.100		mg/L	400	1	5/28/2024 6:24:00 PM
Fluoride	< 0.100	0.100		mg/L	4.00	1	5/28/2024 6:24:00 PM
Nitrate as N	< 0.100	0.100		mg/L	10.0	1	5/28/2024 6:24:00 PM
Nitrite as N	< 0.100	0.100		mg/L	1.00	1	5/28/2024 6:24:00 PM
Sulfate	0.420	0.100		mg/L	500	1	5/28/2024 6:24:00 PM
COLOR - APPARENT - SDWA					SM 2120 B	Analyst: JG	
Color	< 1.00	1.00		Pt-Co	15.0	1	5/28/2024 1:17:00 PM
CYANIDE, FREE-SDWA					SM 4500CN E	Analyst: DT	
Cyanide, Free	< 0.0500	0.0500		mg/L	0.20	1	6/4/2024 10:39:00 AM
DOMESTIC WATER PANEL HARDNESS (TOTAL) - SDWA, CALCULATION ONLY.					SM 2340 B	Analyst: JG	
Hardness (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Calcium (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
Hardness, Magnesium (As CaCO3)	ND	1.00		mg/L		1	6/4/2024 10:47:57 AM
MBAS (SURFACTANTS) - SDWA					SM 5540 C	Analyst: KK	
MBAS (surfactants)	< 0.138	0.138		mg/L	0.50	2	5/30/2024 8:05:00 AM
ODOR - SDWA					SM 2150 B	Analyst: JG	
Odor	No Odor Detected	1.00		T.O.N.	3.00	1	5/28/2024 9:52:00 AM
DOMESTIC WATER PANEL PH - SDWA					SM 4500H+ B	Analyst: LJ	
pH	8.35		H	pH Units	8.50	1	5/30/2024 11:22:00 AM

Qualifiers: * Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank
 (Qual) C Value is below Minimum Compound Limit. DF Dilution Factor.
 H Holding times for preparation or analysis exceeded. MCL Maximum Contaminant Level.
 ND Not Detected at the PQL. PQL Practical Quantitation Limit.

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Analytical Report

WO#: 24051254
 Date Reported: 6/18/2024

CLIENT: H2 Analytics **Collection Date:** 5/28/2024 9:10:00 AM
Project: H2A-240521-1
Lab ID: 24051254-05 **Matrix:** AQUEOUS
Client Sample ID: Echo RO

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
SILICA, REACTIVE (COLORMETRIC)					SM 4500SIO2 C	Analyst: DT	
Silica, Dissolved (as SiO2)	1.12	1.00	S	mg/L	1	6/17/2024 5:02:00 PM	
DW TURBIDITY CHECK					EPA 200.8	Analyst: AL	
Digestion Turbidity Check	<1	1.0		NTU	1	5/29/2024 3:56:37 PM	
METALS 200.8					EPA 200.8	Analyst: AL	
Antimony	<0.001	0.0010		mg/L	1	6/17/2024 5:40:00 PM	
METALS, 200.7 - CWA					EPA 200.7	Analyst: JG	
Aluminum	< 0.0500	0.0500		mg/L	1	5/31/2024 1:09:23 PM	
Boron	< 0.0500	0.0500		mg/L	1	5/31/2024 1:09:23 PM	
Titanium	< 0.0200	0.0200		mg/L	1	5/31/2024 4:18:13 PM	
METALS - PRECIOUS					EPA 6010B	Analyst: JG	
Platinum	< 0.200	0.200		mg/Kg	1	6/4/2024 4:28:45 PM	
DOMESTIC WATER PANEL METALS-SDWA 200.7					EPA 200.7	Analyst: JG	
Calcium	< 1.00	1.00	S	mg/L	1	5/31/2024 12:12:37 PM	
Iron	< 0.100	0.100		mg/L	0.60 1	5/31/2024 12:12:37 PM	
Magnesium	< 1.00	1.00	S	mg/L	150 1	5/31/2024 12:12:37 PM	
Sodium	1.00	1.00	S	mg/L	1	5/31/2024 12:12:37 PM	
DOMESTIC WATER PANEL METALS-SDWA 200.8					EPA 200.8	Analyst: AR	
Arsenic	< 1.00	1.00		µg/L	10.0 1	5/30/2024 7:20:21 PM	
Copper	< 1.00	1.00		µg/L	1000 1	5/30/2024 7:20:21 PM	

Qualifiers: * Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank
 (Qual) C Value is below Minimum Compound Limit. DF Dilution Factor.
 H Holding times for preparation or analysis exceeded. MCL Maximum Contaminant Level.
 ND Not Detected at the PQL. PQL Practical Quantitation Limit.

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Analytical Report

WO#: 24051254
 Date Reported: 6/18/2024

CLIENT: H2 Analytics
Project: H2A-240521-1
Lab ID: 24051254-05
Client Sample ID: Echo RO

Collection Date: 5/28/2024 9:10:00 AM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	MCL	DF	Date Analyzed
DOMESTIC WATER PANEL				EPA 200.8		Analyst: AR	
METALS-SDWA 200.8							
Lead	< 1.00	1.00		µg/L	15.0	1	5/30/2024 7:20:21 PM
Manganese	< 1.00	1.00		µg/L	100	1	5/30/2024 7:20:21 PM
Zinc	< 1.00	1.00		µg/L	5000	1	5/30/2024 7:20:21 PM
METALS-SDWA 200.8				EPA 200.8		Analyst: AR	
Barium	< 1.00	1.00		µg/L	2000	1	5/30/2024 9:09:58 PM
Beryllium	< 1.00	1.00		µg/L	4.00	1	5/30/2024 9:09:58 PM
Cadmium	< 1.00	1.00		µg/L	5.00	1	5/30/2024 9:09:58 PM
Chromium	1.29	1.00		µg/L	100	1	5/30/2024 9:09:58 PM
Nickel	< 1.00	1.00		µg/L		1	5/30/2024 9:09:58 PM
Selenium	< 1.00	1.00		µg/L	50.0	1	5/30/2024 9:09:58 PM
Silver	< 1.00	1.00		µg/L	100	1	5/30/2024 9:09:58 PM

**Qualifiers:
(Qual)**

- * Value exceeds Maximum Contaminant Level.
- C Value is below Minimum Compound Limit.
- H Holding times for preparation or analysis exceeded.
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Definitions & Qualifiers

WO#: 24051254

Date: 6/18/2024

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.