



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

February 14, 2025
Workorder **25010865**

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

Project: H2A-250115-1

Dear Randy Sharpe:

It is the policy of SGS Silver State Analytical Laboratory - Las Vegas to strictly adhere to a comprehensive Quality Assurance Plan that ensures the data presented in this report are both accurate and precise. SGS Silver State Analytical Laboratory - Las Vegas maintains accreditation in the State of Nevada (NV-00930).

The data presented in this report was obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within hold time for the required analyses. Any anomalies associated with the analysis of the samples have been flagged in the Analytical Report with an appropriate explanation in the Definitions & Qualifiers.

Analytical Comments for SM 4500H+ B, Sample 25010865-01A, Batch ID R98057 : Analytical Method hold time was exceeded by 1.766 days.

Sincerely,

A handwritten signature in black ink, appearing to read 'Carly Wood'.

Carly Wood
Laboratory Director
3626 E. Sunset Road, Suite 100
Las Vegas, NV 89120



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Analytical Report

Workorder#: 25010865
Date Reported: 2/14/2025

Client: H2 Analytics
Project Name: H2A-250115-1
PO #:

Sampled By: R Sharpe

Laboratory Accreditation Number: NV930/CA3029

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
25010865-01	H2yunshen Brand X5 Hydrogen Water Bot	01/21/2025 17:15	1/22/2025

Parameter	Method	Result	Units	PQL	Analyst	Date/Time Analyzed	Data Flag
Aluminum	EPA 200.7	< 0.0500	mg/L	0.05	JG	01/30/2025 15:29	
Antimony	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Arsenic	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Barium	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Beryllium	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Boron	EPA 200.7	< 0.0500	mg/L	0.05	JG	01/30/2025 15:29	
Cadmium	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Calcium	EPA 200.7	< 1.00	mg/L	1	JG	01/30/2025 15:29	
Chloride	EPA 300.0	< 0.100	mg/L	0.1	DT	01/22/2025 17:39	
Chromium	EPA200.8	1.0	µg/L	1	JG	01/28/2025 16:31	
Color	SM 2120 B	< 1.00	Pt-Co	1	DT	01/22/2025 13:56	
Copper	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Cyanide, Free	SM 4500CN E	< 0.0500	mg/L	0.05	DT	01/22/2025 11:35	
Fluoride	EPA 300.0	< 0.0500	mg/L	0.05	DT	01/22/2025 17:39	
Hardness (As CaCO3)	SM 2340 B	ND	mg/L	1	JG	02/12/2025 16:11	
Hardness, Calcium (As CaCO3)	SM 2340 B	ND	mg/L	1	JG	02/12/2025 16:11	
Hardness, Magnesium (As CaCO3)	SM 2340 B	ND	mg/L	1	JG	02/12/2025 16:11	
Iron	EPA 200.7	< 0.100	mg/L	0.1	JG	01/30/2025 15:29	
Lead	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Magnesium	EPA 200.7	< 1.00	mg/L	1	JG	01/30/2025 15:29	
Manganese	EPA200.8	4.3	µg/L	1	JG	01/28/2025 16:31	
MBAS	SM 5540 C	ND	mg/L	0.069	DT	01/23/2025 10:01	
Mercury	EPA 245.1	< 0.320	µg/L	0.32	JG	01/23/2025 15:27	
Nickel	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Nitrate as N	EPA 300.0	< 0.0500	mg/L	0.05	DT	01/22/2025 17:39	
Nitrite as N	EPA 300.0	< 0.0500	mg/L	0.05	DT	01/22/2025 17:39	
Odor	SM 2150 B	24.2	T.O.N.	1	DT	01/22/2025 13:54	*
pH	SM 4500H+ B	4.63	pH Units		KR	01/23/2025 12:07	H
Platinum	EPA 6010B	< 0.200	µg/L	0.2	JG	02/13/2025 13:39	
Selenium	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Silica, Dissolved (as SiO2)	EPA 200.7	< 0.100	mg/L	0.1	JG	02/04/2025 17:11	
Silver	EPA200.8	< 1.0	µg/L	1	JG	01/28/2025 16:31	
Sodium	EPA 200.7	< 1.00	mg/L	1	JG	01/30/2025 15:29	
Sulfate	EPA 300.0	< 0.100	mg/L	0.1	DT	01/22/2025 17:39	
Titanium	EPA 200.7	< 0.0200	mg/L	0.02	JG	02/04/2025 12:41	
Zinc	EPA200.8	< 10	µg/L	10	JG	01/28/2025 16:31	



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Quality Control Report

WO#: 25010865
2/21/2025

Analysis: Cyanide, Free
Method: SM 4500CN E

Batch ID: R97996

Method Blank

RunID: 97996 SeqNo 2699658 Units: mg/L
Analysis Date: 1/22/2025 9:11:00 AM Analyst: DT

Analyte	Result	Rep Limit	Rep Qual
Cyanide, Free	< 0.0500	0.0500	

Laboratory Control Sample (LCS)

RunID: 97996 SeqNo 2699659 Units: mg/L
Analysis Date: 1/22/2025 9:11:00 AM Analyst: DT

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Cyanide, Free	0.4000	0.392	98.0								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010548-01E

RunID: 97996 SeqNo 2699662 Units: mg/L
Analysis Date: 1/22/2025 9:11:00 AM Analyst: DT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Cyanide, Free	0	0.4000	0.449	112	0.4000	0.434	108	3.40	20	80	120	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010548-01E

RunID: 97996 SeqNo 2699663 Units: mg/L
Analysis Date: 1/22/2025 9:11:00 AM Analyst: DT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Cyanide, Free	0	0.4000	0.434	108								

Analysis: Color - Apparent
Method: SM 2120 B

Batch ID: R98020

Duplicate

RunID: 98020 SeqNo 2699838 Units: Pt-Co
Analysis Date: 1/22/2025 1:56:00 PM Analyst: DT

Analyte	Result	Rep Limit	Rep Qual	RPD	Sample Value
Color	< 1.00	1.00		0	0



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Quality Control Report

WO#: 25010865
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Method Blank

RunID: 98020 SeqNo 2699835 Units: Pt-Co
Analysis Date: 1/22/2025 1:56:00 PM Analyst: DT

Analyte	Result	Rep Limit	Rep Qual
Color	< 1.00	1.00	

Laboratory Control Sample (LCS)

RunID: 98020 SeqNo 2699836 Units: Pt-Co
Analysis Date: 1/22/2025 1:56:00 PM Analyst: DT

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Color	10.00	10.0	100								

Analysis: MBAS (surfactants) - CWA
Method: SM 5540 C

Batch ID: R98038

Method Blank

RunID: 98038 SeqNo 2700911 Units: mg/L
Analysis Date: 1/23/2025 10:01:00 AM Analyst: DT

Analyte	Result	Rep Limit	Rep Qual
MBAS	ND	0.0690	

Laboratory Control Sample (LCS)

RunID: 98038 SeqNo 2700912 Units: mg/L
Analysis Date: 1/23/2025 10:01:00 AM Analyst: DT

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
MBAS	0.7500	0.701	93.5								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010865-01D

RunID: 98038 SeqNo 2700915 Units: mg/L
Analysis Date: 1/23/2025 10:01:00 AM Analyst: DT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
MBAS	0	0.5000	0.499	99.8								

Analysis: Anions-CWA (Cl, F, NO2, NO3, SO)
Method: EPA 300.0

Batch ID: R98056

Method Blank

RunID: 98056 SeqNo 2701068 Units: mg/L
Analysis Date: 1/22/2025 4:53:00 PM Analyst: DT

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Analyte	Result	Rep Limit	Rep Qual
Chloride	< 0.100	0.100	
Fluoride	< 0.0500	0.0500	
Nitrate as N	< 0.0500	0.0500	
Nitrite as N	< 0.0500	0.0500	
Sulfate	< 0.100	0.100	

Laboratory Control Sample (LCS)

RunID: 98056 SeqNo 2701064 Units: mg/L
Analysis Date: 1/15/2025 2:43:00 AM Analyst: DT

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Chloride	5.000	5.16	103								
Fluoride	5.000	5.01	100								
Nitrate as N	5.000	5.07	101								
Nitrite as N	5.000	5.26	105								
Sulfate	5.000	5.07	101								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010865-01A
RunID: 98056 SeqNo 2701071 Units: mg/L
Analysis Date: 1/22/2025 6:02:00 PM Analyst: DT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Chloride	0.07100	4.996	4.99	98.4	4.996	5.01	98.8	0.396	20	90	110	
Fluoride	0.02940	4.999	5.01	99.5	4.999	5.03	100	0.480	20	90	110	
Nitrate as N	0.01160	4.999	4.98	99.4	4.999	5.00	99.8	0.393	20	90	110	
Nitrite as N	0	5.000	5.01	100	5.000	5.03	101	0.403	20	90	110	
Sulfate	0	5.000	4.93	98.5	5.000	4.97	99.4	0.831	20	90	110	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010865-01A
RunID: 98056 SeqNo 2701072 Units: mg/L
Analysis Date: 1/22/2025 6:25:00 PM Analyst: DT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Chloride	0.07100	4.996	5.01	98.8								
Fluoride	0.02940	4.999	5.03	100								
Nitrate as N	0.01160	4.999	5.00	99.8								
Nitrite as N	0	5.000	5.03	101								
Sulfate	0	5.000	4.97	99.4								

Analysis: PH - CWA
Method: SM 4500H+ B

Batch ID: R98057



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Quality Control Report

WO#: 25010865
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Duplicate

RunID: 98057 SeqNo 2701467 Units: pH Units
Analysis Date: 1/23/2025 12:07:00 PM Analyst: KR

Analyte	Result	Rep Limit	Rep Qual	RPD	Sample Value
pH	4.61		H	0.0043290	4.63

Laboratory Control Sample (LCS)

RunID: 98057 SeqNo 2701464 Units: pH Units
Analysis Date: 1/23/2025 12:07:00 PM Analyst: KR

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
pH	7.000	7.02	100								

Laboratory Control Sample (LCS)

RunID: 98057 SeqNo 2701478 Units: pH Units
Analysis Date: 1/23/2025 12:07:00 PM Analyst: KR

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
pH	7.000	7.04	101								

Laboratory Control Sample (LCS)

RunID: 98057 SeqNo 2701479 Units: pH Units
Analysis Date: 1/23/2025 12:07:00 PM Analyst: KR

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
pH	7.000	7.04	101								

Laboratory Control Sample (LCS)

RunID: 98057 SeqNo 2701480 Units: pH Units
Analysis Date: 1/23/2025 12:07:00 PM Analyst: KR

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
pH	7.000	7.05	101								

Laboratory Control Sample (LCS)

RunID: 98057 SeqNo 2701481 Units: pH Units
Analysis Date: 1/23/2025 12:07:00 PM Analyst: KR

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
pH	7.000	7.04	101								



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Quality Control Report

WO#: 25010865
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Analysis: Mercury - CWA
Method: EPA 245.1

Batch ID: R98069

Method Blank

RunID: 98069 SeqNo 2701419 Units: µg/L
Analysis Date: 1/23/2025 3:07:00 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Mercury	< 0.160	0.160	

Laboratory Control Sample (LCS)

RunID: 98069 SeqNo 2701418 Units: µg/L
Analysis Date: 1/23/2025 3:04:00 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	5.000	4.78	95.6								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 24121253-01D

RunID: 98069 SeqNo 2701423 Units: µg/L
Analysis Date: 1/23/2025 3:21:00 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	0	10.00	10.1	101	10.00	10.2	102	0.687	20	70	130	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 24121253-01D

RunID: 98069 SeqNo 2701424 Units: µg/L
Analysis Date: 1/23/2025 3:23:00 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	0	10.00	10.2	102								

Analysis: Metals, 200.8 - CWA
Method: EPA200.8

Batch ID: R98192

Method Blank

RunID: 98192 SeqNo 2705169 Units: µg/L
Analysis Date: 1/28/2025 1:33:08 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Antimony	< 1.0	1.0	
Arsenic	< 1.0	1.0	
Barium	< 1.0	1.0	
Beryllium	< 1.0	1.0	
Cadmium	< 1.0	1.0	

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Chromium	< 1.0	1.0
Copper	< 1.0	1.0
Lead	< 1.0	1.0
Manganese	< 1.0	1.0
Nickel	< 1.0	1.0
Selenium	< 1.0	1.0
Silver	< 1.0	1.0
Zinc	< 10	10

Laboratory Control Sample (LCS)

RunID: 98192 SeqNo 2705167 Units: µg/L
Analysis Date: 1/28/2025 1:22:03 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Antimony	40.00	40	98.9								

Laboratory Control Sample (LCS)

RunID: 98192 SeqNo 2705168 Units: µg/L
Analysis Date: 1/28/2025 1:27:36 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Arsenic	40.00	40	100								
Barium	40.00	40	101								
Beryllium	40.00	41	101								
Cadmium	40.00	40	100								
Chromium	40.00	41	104								
Copper	40.00	41	101								
Lead	40.00	41	103								
Manganese	40.00	43	108								
Nickel	40.00	40	101								
Selenium	200.0	200	99.1								
Silver	40.00	40	101								
Zinc	40.00	43	108								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-01A

RunID: 98192 SeqNo 2705190 Units: µg/L
Analysis Date: 1/28/2025 2:12:06 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Antimony	0.4620	40.00	45	112	40.00	45	111	0.846	20	70	130	
Arsenic	1.661	40.00	41	98.6	40.00	41	97.4	1.19	20	70	130	
Barium	130.8	40.00	170	98.8	40.00	170	95.2	0.850	20	70	130	
Beryllium	0	40.00	40	98.8	40.00	39	98.6	0.248	20	70	130	
Cadmium	0	40.00	38	95.2	40.00	38	94.2	1.13	20	70	130	
Chromium	0.6370	40.00	41	99.7	40.00	41	99.7	0.0247	20	70	130	



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Copper	100.2	40.00	140	97.8	40.00	140	89.7	2.36	20	70	130	
Lead	0	40.00	39	98.4	40.00	39	98.1	0.295	20	70	130	
Manganese	1.668	40.00	40	96.4	40.00	40	96.8	0.375	20	70	130	
Nickel	1.721	40.00	39	93.6	40.00	39	92.8	0.787	20	70	130	
Selenium	2.387	200.0	190	94.4	200.0	190	94.6	0.255	20	70	130	
Silver	0	40.00	38	96.2	40.00	38	95.2	1.06	20	70	130	
Zinc	86.25	40.00	120	92.2	40.00	120	90.7	0.479	20	70	130	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-01A

RunID: 98192 SeqNo 2705191 Units: µg/L

Analysis Date: 1/28/2025 2:17:38 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Antimony	0.4620	40.00	45	111								
Arsenic	1.661	40.00	41	97.4								
Barium	130.8	40.00	170	95.2								
Beryllium	0	40.00	39	98.6								
Cadmium	0	40.00	38	94.2								
Chromium	0.6370	40.00	41	99.7								
Copper	100.2	40.00	140	89.7								
Lead	0	40.00	39	98.1								
Manganese	1.668	40.00	40	96.8								
Nickel	1.721	40.00	39	92.8								
Selenium	2.387	200.0	190	94.6								
Silver	0	40.00	38	95.2								
Zinc	86.25	40.00	120	90.7								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-11A

RunID: 98192 SeqNo 2705204 Units: µg/L

Analysis Date: 1/28/2025 3:30:05 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Antimony	0.4450	40.00	46	113	40.00	45	112	0.800	20	70	130	
Arsenic	1.336	40.00	41	97.9	40.00	40	97.8	0.101	20	70	130	
Barium	134.3	40.00	170	101	40.00	170	100	0.241	20	70	130	
Beryllium	0	40.00	39	98.3	40.00	40	99.1	0.782	20	70	130	
Cadmium	0	40.00	38	94.7	40.00	38	95.1	0.466	20	70	130	
Chromium	1.050	40.00	40	97.4	40.00	41	99.2	1.71	20	70	130	
Copper	945.6	40.00	970	65.9	40.00	970	62.4	0.145	20	70	130	S
Lead	0.1170	40.00	40	98.8	40.00	40	99.1	0.353	20	70	130	
Manganese	0.5620	40.00	42	103	40.00	41	100	2.44	20	70	130	
Nickel	2.682	40.00	40	92.0	40.00	39	91.6	0.424	20	70	130	
Selenium	2.071	200.0	190	96.4	200.0	190	96.4	0.0452	20	70	130	
Silver	0	40.00	38	95.4	40.00	38	94.8	0.586	20	70	130	
Zinc	227.3	40.00	270	102	40.00	270	97.5	0.649	20	70	130	



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Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-11A

RunID: 98192 SeqNo 2705208 Units: µg/L

Analysis Date: 1/28/2025 3:35:38 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Antimony	0.4450	40.00	45	112								
Arsenic	1.336	40.00	40	97.8								
Barium	134.3	40.00	170	100								
Beryllium	0	40.00	40	99.1								
Cadmium	0	40.00	38	95.1								
Chromium	1.050	40.00	41	99.2								
Copper	945.6	40.00	970	62.4								
Lead	0.1170	40.00	40	99.1								
Manganese	0.5620	40.00	41	100								
Nickel	2.682	40.00	39	91.6								
Selenium	2.071	200.0	190	96.4								
Silver	0	40.00	38	94.8								
Zinc	227.3	40.00	270	97.5								

Analysis: Metals, 200.7 - CWA

Method: EPA 200.7

Batch ID: R98378

Method Blank

RunID: 98378 SeqNo 2709607 Units: mg/L

Analysis Date: 1/30/2025 3:03:54 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Aluminum	< 0.0500	0.0500	
Boron	< 0.0500	0.0500	
Calcium	< 1.00	1.00	
Iron	< 0.100	0.100	
Magnesium	< 1.00	1.00	
Sodium	< 1.00	1.00	



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Quality Control Report

WO#: 25010865
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Method Blank

RunID: 98378 SeqNo 2709608 Units: mg/L
Analysis Date: 1/30/2025 3:06:06 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Aluminum	< 0.0500	0.0500	
Boron	< 0.0500	0.0500	
Calcium	< 1.00	1.00	
Iron	< 0.100	0.100	
Magnesium	< 1.00	1.00	
Sodium	< 1.00	1.00	

Laboratory Control Sample (LCS)

RunID: 98378 SeqNo 2709605 Units: mg/L
Analysis Date: 1/30/2025 2:55:33 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Aluminum	10.00	10.1	101								
Boron	10.00	10.0	100								
Calcium	10.00	10.4	104								
Iron	10.00	10.2	102								
Magnesium	10.00	10.2	102								

Laboratory Control Sample (LCS)

RunID: 98378 SeqNo 2709606 Units: mg/L
Analysis Date: 1/30/2025 2:59:44 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Sodium	10.00	10.2	102								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-11A

RunID: 98378 SeqNo 2709612 Units: mg/L
Analysis Date: 1/30/2025 3:20:48 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Aluminum	0	5.000	5.07	101	5.000	5.04	101	0.593	20	70	130	
Boron	0.1300	5.000	5.18	101	5.000	5.17	101	0.193	20	70	130	
Calcium	79.46	20.00	98.5	95.2	20.00	98.0	92.7	0.509	20	70	130	
Iron	0	5.000	5.16	103	5.000	5.17	103	0.194	20	70	130	
Magnesium	25.30	20.00	45.8	103	20.00	45.5	101	0.701	20	70	130	
Sodium	86.67	20.00	105	93.9	20.00	105	90.9	0.580	20	70	130	



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Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-11A

RunID: 98378 SeqNo 2709613 Units: mg/L

Analysis Date: 1/30/2025 3:24:58 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Aluminum	0	5.000	5.04	101								
Boron	0.1300	5.000	5.17	101								
Calcium	79.46	20.00	98.0	92.7								
Iron	0	5.000	5.17	103								
Magnesium	25.30	20.00	45.5	101								
Sodium	86.67	20.00	105	90.9								

Analysis: Metals, 200.7 - CWA

Method: EPA 200.7

Batch ID: R98383

Method Blank

RunID: 98383 SeqNo 2709887 Units: mg/L

Analysis Date: 2/4/2025 4:35:33 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Silica, Dissolved (as SiO ₂)	< 0.100	0.100	



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Quality Control Report

WO#: 25010865
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Method Blank

RunID: 98383 SeqNo 2709888 Units: mg/L
Analysis Date: 2/4/2025 4:37:07 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Silica, Dissolved (as SiO ₂)	< 0.100	0.100	

Laboratory Control Sample (LCS)

RunID: 98383 SeqNo 2709885 Units: mg/L
Analysis Date: 2/4/2025 4:31:44 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Silica, Dissolved (as SiO ₂)	5.000	5.03	101								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-11A

RunID: 98383 SeqNo 2709892 Units: mg/L
Analysis Date: 2/4/2025 4:44:09 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Silica, Dissolved (as SiO ₂)	8.890	5.000	14.3	109	5.000	14.5	111	0.973	20	70	130	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-11A

RunID: 98383 SeqNo 2709893 Units: mg/L
Analysis Date: 2/4/2025 5:09:25 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Silica, Dissolved (as SiO ₂)	8.890	5.000	14.5	111								

Analysis: Metals, 200.7 - CWA

Method: EPA 200.7

Batch ID: R98384

Method Blank

RunID: 98384 SeqNo 2709957 Units: mg/L
Analysis Date: 2/4/2025 12:27:05 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Titanium	< 0.0200	0.0200	



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Quality Control Report

WO#: 25010865
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Method Blank

RunID: 98384 SeqNo 2709958 Units: mg/L
Analysis Date: 2/4/2025 12:28:58 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Titanium	< 0.0200	0.0200	

Laboratory Control Sample (LCS)

RunID: 98384 SeqNo 2709955 Units: mg/L
Analysis Date: 2/4/2025 12:22:00 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Titanium	5.000	5.11	102								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-11A

RunID: 98384 SeqNo 2709962 Units: mg/L
Analysis Date: 2/4/2025 12:37:07 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Titanium	0	5.000	5.41	108								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010920-11A

RunID: 98384 SeqNo 2709963 Units: mg/L
Analysis Date: 2/4/2025 12:39:19 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Titanium	0	5.000	5.30	106								

Analysis: Metals - Precious

Method: EPA 6010B

Batch ID: R98624

Method Blank

RunID: 98624 SeqNo 2715049 Units: µg/L
Analysis Date: 2/13/2025 1:04:22 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Platinum	< 0.500	0.500	

Laboratory Control Sample (LCS)

RunID: 98624 SeqNo 2715050 Units: µg/L
Analysis Date: 2/13/2025 1:08:28 PM Analyst: JG



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Quality Control Report

WO#: 25010865
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Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Platinum	10.00	9.86	98.6								

Laboratory Control Sample (LCS)

RunID: 98624 SeqNo 2715087 Units: µg/L
Analysis Date: 2/13/2025 12:56:39 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Platinum	100.0	95.2	95.2								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010548-01B
RunID: 98624 SeqNo 2715058 Units: µg/L
Analysis Date: 2/13/2025 1:31:54 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Platinum	0	5.000	5.50	110	5.000	5.55	111	0.868	20	70	130	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 25010548-01B
RunID: 98624 SeqNo 2715059 Units: µg/L
Analysis Date: 2/13/2025 1:35:40 PM Analyst: JG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Platinum	0	5.000	5.55	111								



Sampled by: Randy Sharpe		Signature: 		ANALYSES REQUESTED										NOTE: Surcharges apply to Level II, III and IV reports							
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.														Send Results Via:		Mail: ☐		Email: ☒		Fax: ☐	

Standard: ☒ Standard TAT 7-10 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: ☐	Other Pertinent Information / Special Instructions IHSA Certification Profile B H2yunshen H2 Bottle
Number / Type of Containers ***	
pH	
Hardness	
Odor	
Silica	
200.8, 200.7, Precious	
Free	
ry	
Send Invoice Via:	
Mail: ☐ Email: ☒ Fax: ☐	
Field Measurements	
On-Site pH:	Chlorine:

[illegible]

	Signature	Print Name	Company	Date	Time
Relinquished By:	RSS Sharpe	Randy Sharpe	H2 Analytics	1/22/2025	11:28 am
Received By:	Randy Sharpe	Randy Sharpe	H2 Analytics	1-22-25	11:28
Relinquished By:					
Received By:					
Relinquished By:					
Received By:					
Authorized By:	RSS Sharpe	Randy Sharpe	H2 Analytics	1/15/2025	11:28 am

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 those samples as they are received by the laboratory.
The liability of the laboratory is limited to the amount paid for the report.

Legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees. If collections or

1=H₂SO₄, 2=HNO₃, 3=HCl, 4=NaOH, 5=Na₂S₂O₃, 6=None, 7=Other
reservative**

Container*** P-Plastic, G-Glass, V-Voa Vial, OT-Other



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Definitions & Qualifiers

WO#: 25010865

Date: 2/14/2025

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.

TNTC: Too Numerous to Count; colony density is too thick to be individually counted or greater than method reporting requirements.

Qualifiers:

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

- Laboratory not accredited for this analyte.

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.