



Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
(775) 857-2400 FAX: (888) 398-7002
www.ssalabs.com

June 05, 2018
Workorder **18051321**

Jay Flakus
CITY OF YERINGTON
102 South Main Street
Yerington, NV 89447

Project: W07- California Well raw

Dear Jay Flakus:

It is the policy of Silver State Analytical Laboratory - Reno to strictly adhere to a comprehensive Quality Assurance Plan that ensures the data presented in this report are both accurate and precise. Silver State Analytical Laboratory - Reno maintains accreditation in the State of Nevada (NV-00015) and the State of California (ELAP 2990).

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 the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with an appropriate explanation in the Analysis Report section of the Laboratory Report.

Sincerely,

A handwritten signature in black ink that reads "Carly Wood".

Carly Wood
Laboratory Director
1135 Financial Blvd
Reno, NV 89502



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Analytical Report

Workorder#: 18051321
 Date Reported: 6/5/2018

Client: CITY OF YERINGTON
Project Name: W07- California Well raw
PO #:

Sampled By J. Flakus

Laboratory Accreditation Number NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
18051321-01	W07- California Well raw	05/25/2018 10:24	5/25/2018

Parameter	Method	Result	Units	MCL	Analyst	Date/Time Analyzed	Data Flag
Arsenic	EPA 200.8	0.004	mg/L	0.01	RM	05/29/2018 19:22	
Barium	EPA 200.8	0.060	mg/L	2	RM	05/29/2018 19:22	
Cadmium	EPA 200.8	<0.001	mg/L	0.005	RM	05/29/2018 19:22	
Chromium	EPA 200.8	<0.001	mg/L	0.1	RM	05/29/2018 19:22	
Digestion Turbidity Check	EPA 200.8	< 1.0	NTU		KK	05/29/2018 12:24	
Fluoride	EPA 300.0	<0.1	mg/L	4	JF	05/26/2018 2:32	S
Lead	EPA 200.8	<0.001	mg/L	0.015	RM	05/29/2018 19:22	
Mercury	EPA 245.1	< 0.0001	mg/L	0.002	KL	05/31/2018 12:30	
Nitrate as N	EPA 300.0	<0.05	mg/L	10	JF	05/26/2018 2:32	
Nitrite as N	EPA 300.0	<0.05	mg/L	1	JF	05/26/2018 2:32	
Selenium	EPA 200.8	<0.005	mg/L	0.05	RM	05/29/2018 19:22	

Analysis: Anions 300.0

Method: EPA 300.0

Batch ID: R18361

Method Blank

RunID: 18361 SeqNo 382199 Units: mg/L

Analysis Date: 4/30/2018 11:21:02 AM Analyst: JF

Analyte	Result	Rep Limit	Rep Qual
Fluoride	< 0.10	0.10	
Nitrate as N	< 0.050	0.050	
Nitrite as N	< 0.050	0.050	

Laboratory Control Sample (LCS)

RunID: 18361 SeqNo 382201 Units: mg/L

Analysis Date: 4/30/2018 12:39:38 PM Analyst: JF

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Fluoride	2.000	1.9	95.7								
Nitrate as N	0.9030	0.91	101								
Nitrite as N	1.220	1.3	104								

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

Sample Spiked: 18051300-01A

RunID: 18361 SeqNo 382214 Units: mg/L

Analysis Date: 5/25/2018 8:00:06 PM Analyst: JF

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
Fluoride	0	100.0	87	86.6	100.0	87	86.9	0.359	20	90	110	S
Nitrate as N	0	100.0	97	97.1	100.0	97	96.7	0.434	20	90	110	
Nitrite as N	0	100.0	92	92.1	100.0	92	92.1	0.0224	20	90	110	

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

Sample Spiked: 18051312-04A

RunID: 18361 SeqNo 382223 Units: mg/L

Analysis Date: 5/25/2018 11:55:45 PM Analyst: JF

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
Fluoride	0	10.00	9.0	89.7	10.00	9.0	90.2	0.587	20	90	110	
Nitrate as N	0.5160	10.00	10	97.8	10.00	10	98.0	0.278	20	90	110	
Nitrite as N	0	10.00	9.5	94.8	10.00	9.6	95.8	1.05	20	90	110	

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

Sample Spiked: 18051323-03A

RunID: 18361 SeqNo 382235 Units: mg/L

Analysis Date: 5/26/2018 5:09:56 AM Analyst: JF

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
Nitrate as N	0	10.00	9.9	99.4	10.00	9.8	98.1	1.30	20	90	110	
Nitrite as N	0	10.00	9.0	90.0	10.00	9.1	90.6	0.670	20	90	110	

Analysis: Metals 200.8

Method: EPA 200.8

Batch ID: R18403

Method Blank

RunID: 18403 SeqNo 383215 Units: mg/L

Analysis Date: 5/29/2018 4:14:18 PM Analyst: RM

Analyte	Result	Rep Limit	Rep Qual
Arsenic	< 0.0010	0.0010	
Barium	< 0.0050	0.0050	
Cadmium	< 0.0010	0.0010	
Chromium	< 0.0010	0.0010	
Lead	< 0.0010	0.0010	
Selenium	< 0.0050	0.0050	

Laboratory Control Sample (LCS)

RunID: 18403 SeqNo 383189 Units: mg/L

Analysis Date: 5/29/2018 2:14:57 PM Analyst: RM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Arsenic	0.1000	0.099	99.0								
Barium	0.1000	0.10	99.9								
Cadmium	0.1000	0.099	98.7								
Chromium	0.1000	0.099	99.0								
Lead	0.1000	0.10	100								
Selenium	0.5000	0.50	100								

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

Sample Spiked: 18051253-01A

RunID: 18403 SeqNo 383221 Units: mg/L

Analysis Date: 5/29/2018 4:41:49 PM Analyst: RM

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
Arsenic	0.008870	0.1000	0.11	101	0.1000	0.11	101	0.273	20	70	130	
Barium	0.02450	0.1000	0.13	102	0.1000	0.13	101	1.19	20	70	130	
Cadmium	0	0.1000	0.099	98.7	0.1000	0.097	96.8	1.95	20	70	130	
Chromium	0.002420	0.1000	0.096	93.5	0.1000	0.094	91.8	1.74	20	70	130	

Lead	0	0.1000	0.10	105	0.1000	0.11	106	0.760	20	70	130	
Selenium	0.003510	0.5000	0.52	103	0.5000	0.52	104	1.11	20	70	130	

Analysis: Mercury, RCRA
Method: EPA 7470

Batch ID: R18412

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

Sample Spiked: 18051320-01A

RunID: 18412 SeqNo 383383 Units: mg/L

Analysis Date: 5/31/2018 12:30:00 PM Analyst: KL

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	0005900	0.05000	0.0526	104	0.05000	0.0453	89.4	14.9	20	80	120	

Analysis: Mercury
Method: EPA 245.1

Batch ID: R18412

Method Blank

RunID: 18412 SeqNo 383360 Units: mg/L

Analysis Date: 5/31/2018 12:30:00 PM Analyst: KL

Analyte	Result	Rep Limit	Rep Qual
Mercury	< 0.0001	0.0001	

Laboratory Control Sample (LCS)

RunID: 18412 SeqNo 383361 Units: mg/L

Analysis Date: 5/31/2018 12:30:00 PM Analyst: KL

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	0.006000	0.00599	99.8								

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

Sample Spiked: 18051202-02B

RunID: 18412 SeqNo 383364 Units: mg/L

Analysis Date: 5/31/2018 12:30:00 PM Analyst: KL

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	0.005000	0.00488	97.6	0.005000	0.00476	95.2	2.49	20	70	130	

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

Sample Spiked: 18051321-01B

RunID: 18412 SeqNo 383377 Units: mg/L

Analysis Date: 5/31/2018 12:30:00 PM Analyst: KL

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



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Quality Control Report

WO#: 18051321
6/6/2018

Mercury	0.005000	0.00493	98.6	0.005000	0.00484	96.8	1.84	20	70	130	
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SilverState Analytical Laboratories

Sierra Environmental Monitoring EnviroTech

sem-analytical.com envirotechonline.com

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CHAIN-OF-CUSTODY-RECORD

Page 1 of 1

Page 7 of 8

Report Results To:

Report Attention: Jay Flakus, Public Works Director
Company: City of Yerington Nevada - Public Works
Mailing Address: 102 S Main Street
City, State, Zip: Yerington, NV 89447
Phone: 775-302-1155
Email / Fax: jayf@yerington.net

Send Invoice To:

Invoice Attention: Jay Flakus
Company: City of Yerington Nevada - Public Works
Mailing Address: 102 S Main Street
City, State, Zip: Yerington, NV 89447
Phone: 775-302-1155
Email / Fax: jayf@yerington.net

Sampled by: Jay Flakus

Signature: [Signature]

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.

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:
NOTE: A Rush Surcharge is applied for rush samples

Other Pertinent Information / Special Instructions
MAY 2018 SOCS AND IOCS
150c
Number / Type of Containers ***
SOCS PHASE II & IV
IOCS PHASE II

ANALYSES REQUESTED

QC Level Report
I II III IV
Send Results Via:
Mail: Email: Fax:
Send Invoice Via:
Mail: Email: Fax:

Field Measurements
On-Site pH: Chlorine:
Temperature: Other:

Date	Time	Signature	Print Name	Company	Date	Time
05/25/18	1038	[Signature]	Jay Flakus	City of Yerington, NV	5/25/18	1137
05/25/18	1021	[Signature]	Maria Reyes	City of Yerington, NV	5/25/18	1137
05/25/18	1024	[Signature]	Maria Reyes	City of Yerington, NV	5/25/18	1:10 PM
		[Signature]	America Reyes and Joe Navar	City of Yerington, NV	5/25/18	1:310
		[Signature]	Jay Flakus, Public Works Director	City of Yerington, NV	5/25/18	1137

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



These other arrangements are made and storage fees may apply. these samples as they are received by the laboratory. the report.
ontainer*** P-Plastic, G-Glass, V-Voa Vial, OT-Other



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Definitions & Qualifiers

WO#: 18051321
Date: 6/5/2018

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.