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

December 05, 2018
Workorder **18110718**

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

Project: W05

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.

18110718: G ALPHA/BETA has been Sub Contracted.

Sincerely,

Carly Wood
Laboratory Director
1135 Financial Blvd
Reno, NV 89502

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Analytical Report

Workorder#: **18110718**
Date Reported: **12/5/2018**

Client: CITY OF YERINGTON **Sampled By** J. Flakus
Project Name: W05
PO #:

Laboratory Accreditation Number NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
18110718-01	W05	11/14/2018 9:10	11/14/2018

Parameter	Method	Result	Units	MCL	Analyst	Date/Time Analyzed	Data Flag
ALPHA, Gross	EPA 900	See Report			CW		
BETA, Gross	EPA 900	See Report			CW		

Laboratory Accreditation Number NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
18110718-02	W05	11/14/2018 9:10	11/14/2018

Parameter	Method	Result	Units	MCL	Analyst	Date/Time Analyzed	Data Flag
Digestion Turbidity Check	EPA 200.8	< 1.0	NTU		KL	11/15/2018 14:37	
Uranium	EPA 200.8	0.014	mg/L	0.03	JF	11/30/2018 3:01	

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Quality Control Report

WO#: **18110718**
12/5/2018

Analysis: Metals 200.8
Method: EPA 200.8 **Batch ID:** **R23935**

Laboratory Control Sample (LCS)

RunID: 23935 SeqNo 533354 Units: mg/L

Analysis Date: 11/29/2018 9:40:23 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
Uranium	0.1000	0.10	100								

Laboratory Control Sample (LCS)

RunID: 23935 SeqNo 533394 Units: mg/L

Analysis Date: 11/30/2018 2:48:39 AM 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
Uranium	0.1000	0.10	103								

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

Sample Spiked: 18110686-01B

RunID: 23935 SeqNo 533384 Units: mg/L

Analysis Date: 11/30/2018 12:55:52 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
Uranium	0.01591	0.2000	0.22	102	0.2000	0.23	105	2.61	20	70	130	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

November 30, 2018

Mr. Joe Nava
Sierra Environmental Monitoring, Inc.
1135 Financial Blvd.
Reno, NV 89502

RE: Project: 18110718
Pace Project No.: 30272108

Dear Mr. Nava:
Enclosed are the analytical results for sample(s) received by the laboratory on November 19, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carin A. Ferris

Carin Ferris
carin.ferris@pacelabs.com
724-850-5615
Project Manager

Enclosures

cc: Ms. Carly Wood, Sierra Environmental Monitoring, Inc.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 18110718
Pace Project No.: 30272108

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 18110718
Pace Project No.: 30272108

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30272108001	**18110718-01A**	Drinking Water	11/14/18 09:10	11/19/18 09:50

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 18110718
Pace Project No.: 30272108

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30272108001	**18110718-01A**	EPA 900.0	NEG	2

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 18110718
Pace Project No.: 30272108

Sample: 18110718-01A **Lab ID: 30272108001** Collected: 11/14/18 09:10 Received: 11/19/18 09:50 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	**5.95 ± 2.66 (2.74) C:NA T:NA**	pCi/L	11/26/18 08:44	12587-46-1	
Gross Beta	EPA 900.0	**4.77 ± 1.38 (2.08) C:NA T:NA**	pCi/L	11/26/18 08:44	12587-47-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 18110718
Pace Project No.: 30272108

QC Batch: 321306 Analysis Method: EPA 900.0
QC Batch Method: EPA 900.0 Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 30272108001

METHOD BLANK: 1566970 Matrix: Water
Associated Lab Samples: 30272108001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.294 ± 0.674 (1.60) C:NA T:NA	pCi/L	11/26/18 08:54	
Gross Beta	0.490 ± 0.986 (2.25) C:NA T:NA	pCi/L	11/26/18 08:54	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 18110718
Pace Project No.: 30272108

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SilverState Analytical Laboratories
Sierra Environmental Monitoring

CHAIN OF CUSTODY RECORD

COC ID: 4033	PAGE: 1	OF: 1

WO# : 30272108

30272108

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

SUB CONTRATOR: Pace Greenburg-R COMPANY: Pace Analytical Services

ADDRESS: 1638 Roseytown Road

CITY, STATE, ZIP: Greenburg, PA 15601

PHONE: (724) 850-5600 FAX: EMAIL:

ACCOUNT #: PO#: 18110718 SAMPLER: J. Flakus

SPECIAL INSTRUCTIONS / COMMENTS:
Please send results to: jnava@ssalabs.com; cwood@ssalabs.com NV Sample

ANALYTICAL PARAMETERS

ITEM #	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	SUB-G ALPHA/BETA-R (E900)													
1	18110718-01A	W05		Drinking Water	11/14/2018 9:10	1	√													001

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
BENITEZ	11-15-18	15:30	Emily Dyer	11-19-18	0950
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☒ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: Silver State

Project # # 30272108

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Label ET
LIMS Login ET

Tracking #: 4436 4823 2359

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Thermometer Used N/A Type of Ice: Wet Blue (None)

Cooler Temperature Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

pH paper Lot# 10D2981

Date and Initials of person examining contents: ET 11-19-18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, Phenolics	✓			16. pH<2
				Initial when completed ET / Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: ET / Date: 11-19-18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

SilverState Analytical Laboratories
Sierra Environmental Monitoring
EnviroTech
ssalabs.com sem-analytical.com envirotechonline.com

[ ] 3620 E. SUNSET RD., STE 100, LAS VEGAS, NV 89120
Phone (702) 873-4478 Fax: (702) 873-7967 (EPA#: NV00930, CA2885)

1811071 8
[X] 1135 FINANCIAL BOULEVARD, RENO, NV 89502
Phone (775) 857-2400 Fax: (888) 398-7002 (EPA#: NV00015, CA2526)

CHAIN-OF-CUSTODY-RECORD

Report Results To:
Report Attention: Jay Flakus, Public Works Director
Project Number:
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
PO# OPEN
Quote #
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

COMPLIANCE MONITORING? Yes [X] No [ ]
NEW ADDRESS? Results: [ ] Invoice: [ ]

Applicable Program
SDWA [X] CWA [ ] RCRA [ ] Mining [ ] Other _____

QC Level Report
(I) II III IV
NOTE: Surcharges apply to Level II, III and IV reports

Send Results Via:
Mail: [X] Email: [X] Fax: [ ]

Send Invoice Via:
Mail: [ ] Email: [ ] Fax: [ ]

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

Sampled by: JAY FLAKUS 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: [X] 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
18027
4°C

ANALYSES REQUESTED

Date Sampled	Time Sampled	Sample Identification	SSAL - SEM Lab No.	Comp. Grab	Matrix*	Preservative**	Number / Type of Containers ***	RADS Gross α	RADS Uranium
11/14/18	0910	WO5		G	DW	2	1	X	
11/14/18	0910	WO5		G	DW	2	1		X

	Signature	Print Name	Company	Date	Time
Relinquished By:		JAY FLAKUS	City of Yerington, NV	11/14/18	1310
Received By:		Jesslyna Cochrane	City of Yerington, NV	11/14/18	1:10
Relinquished By:		Jessy Cochrane	City of Yerington, NV	11/14/18	4:00
Received By:		Joe Nam	SSA	11/14/18	1600
Relinquished By:					
Received By:					
Authorized By:		Jay Flakus, Public Works Director		11/14/18	1310

Authorization is required to process samples. This obligates your organization for service fees. SSAL 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.

COYPW SDW SAMPLE COC 2018
18027

...angements are made and storage fees may apply.
...s as they are received by the laboratory.

Matrix* DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other
Preservative** 1=H_2SO_4, 2=HNO_3, 3=HCl, 4=NaOH, 5=$Na_2S_2O_3$, 6=None, 7=Other
*** P-Plastic, G-Glass, V-Voa Vial, OT-Other

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Definitions & Qualifiers

WO#: **18110718**
Date: **12/5/2018**

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 recieved was out of limit as specified by method.