



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

December 05, 2018  
Workorder **18110705**

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

Project: W07

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.

18110705: CARBAMATES 531, DBCP&EDB-504, DIQUAT-549, ENDOTHALL-548, GLYPHOSATE 547, HERB-515, PEST&PCB 508, and SVOC-525-R have been Sub Contracted.

Note: Endothall bottle broke, client will resample.

Sincerely,

Carly Wood  
Laboratory Director  
1135 Financial Blvd  
Reno, NV 89502



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

# Analytical Report

Workorder#: 18110705  
 Date Reported: 12/5/2018

**Client:** CITY OF YERINGTON

**Sampled By:** J. Flakus

**Project Name:** W07

**PO #:**

**Laboratory Accreditation Number:** NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
18110705-01	W07	11/14/2018 8:30	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	
Sodium	EPA 200.7	25	mg/L		JF	11/16/2018 18:53	
Uranium	EPA 200.8	0.027	mg/L	0.03	JF	11/30/2018 1:15	

**Laboratory Accreditation Number:** NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
18110705-02	W07	11/14/2018 8:30	11/14/2018

Parameter	Method	Result	Units	MCL	Analyst	Date/Time Analyzed	Data Flag
Carbamates	EPA 531	See Report			CW		
DBCP & EDB	EPA 504	See Report			CW		
Diquat	EPA 549	See Report			CW		
Glyphosate	EPA 547	See Report			CW		
Herbicides	EPA 515	See Report			CW		
PCB & Pesticides	EPA 508	See Report			CW		
SVOC	EPA 525	See Report			CW		

Original

**Analysis:** Metals 200.7

**Method:** EPA 200.7

**Batch ID:** R23532

**Method Blank**

RunID: 23532 SeqNo 522867 Units: mg/L

Analysis Date: 11/16/2018 12:18:52 PM Analyst: JF

Analyte	Result	Rep Limit	Rep Qual
Sodium	< 0.50	0.50	

**Laboratory Control Sample (LCS)**

RunID: 23532 SeqNo 522869 Units: mg/L

Analysis Date: 11/16/2018 12:23:20 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
Sodium	30.00	29	96.3								

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

Sample Spiked: 18101581-01A

RunID: 23532 SeqNo 522981 Units: mg/L

Analysis Date: 11/16/2018 5:46:57 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
Sodium	20.67	20.00	37	80.4	20.00	37	82.6	1.17	20	70	130	

**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

Original



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

# Quality Control Report

WO#: 18110705  
12/5/2018

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	

Original



BSK Associates Laboratory Fresno  
 1414 Stanislaus St  
 Fresno, CA 93706  
 559-497-2888 (Main)  
 559-485-6935 (FAX)

**A8K1989**

**12/04/2018**

Invoice: A835668

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

**RE: Report for A8K1989 Drinking Water Organics - NV**

Dear Joe Nava,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 11/16/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Adam Trevarrow, Project Manager



Accredited in Accordance with NELAP  
 ORELAP #4021-009

**Case Narrative**

Project and Report Details	Invoice Details
----------------------------	-----------------

<b>Client:</b> Sierra Environmental Monitoring <b>Report To:</b> Joe Nava <b>Project #:</b> 18110705 <b>Received:</b> 11/16/2018 - 10:55 <b>Report Due:</b> 12/04/2018	<b>Invoice To:</b> Sierra Environmental Monitoring <b>Invoice Attn:</b> Kimberly Grover <b>Project PO#:</b> 18110705
--	--

**Sample Receipt Conditions**

<b>Cooler:</b> Default Cooler <b>Temperature on Receipt °C:</b> 1.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Initial receipt at BSK-FAL
--	---

**Detailed Narrative**

**Analysis Comment**

**Date:** 12/4/18  
**Initials:** AJT  
**Comment:** EPA 548 bottle received broken, analysis cancelled.

**Data Qualifiers**

The following qualifiers have been applied to one or more analytical results:

MS1.0 Matrix spike recoveries exceed control limits.

**Report Distribution**

Recipient(s)	Report Format	CC:
Joe Nava	NEVADA.RPT	cwood@ssalabs.com
Kimberly Grover	NEVADA.RPT	

**Sample Summary**

Sierra Environmental Monitoring  
 1135 Financial Blvd  
 Reno, NV 89502

Analysis	Method	Laboratory Container ID	Client Container ID
<b>A8K1989-01</b>			
SampleName: 18110705-02A		Sampled: 11/14/2018 08:30	
Matrix: Water		Received: 11/16/2018 10:55	
EDB and DBCP by GC-ECD (Federal)	EPA 504.1	J	
Organohalide Pesticides, PCBs by GC-ECD (Federal)	EPA 505	J	
Chlorinated Acid Herbicides by GC-ECD (40 CFR 141.	EPA 515.4	C	
Semi-Volatile Organics by GC-MS (Federal)	EPA 525.3	A	
Carbamates by HPLC (Federal)	EPA 531.1	M	
Glyphosate by HPLC (Federal)	EPA 547	G	
Diquat by HPLC (Federal)	EPA 549.2	D	

**Certificate of Analysis**

**Sample ID:** A8K1989-01  
**Sampled By:** J Flakus  
**Sample Description:** 18110705-02A // W07

**Sample Date - Time:** 11/14/18 - 08:30  
**Matrix:** Drinking Water  
**Sample Type:** Grab

**BSK Associates Laboratory Fresno  
Organics**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<b><u>EDB and DBCP by GC-ECD (Federal)</u></b>									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.020	ug/L	1	A817440	11/19/18	11/20/18	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.010	ug/L	1	A817440	11/19/18	11/20/18	
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	101 %	<i>Acceptable range: 70-130 %</i>						
<b><u>Organohalide Pesticides, PCBs by GC-ECD (Federal)</u></b>									
Aldrin	EPA 505	ND	0.075	ug/L	1	A817440	11/19/18	11/20/18	
Chlordane	EPA 505	ND	0.20	ug/L	1	A817440	11/19/18	11/20/18	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A817440	11/19/18	11/20/18	
Endrin	EPA 505	ND	0.010	ug/L	1	A817440	11/19/18	11/20/18	
Heptachlor	EPA 505	ND	0.040	ug/L	1	A817440	11/19/18	11/20/18	
Heptachlor Epoxide	EPA 505	ND	0.020	ug/L	1	A817440	11/19/18	11/20/18	
Hexachlorobenzene	EPA 505	ND	0.10	ug/L	1	A817440	11/19/18	11/20/18	
Hexachlorocyclopentadiene	EPA 505	ND	0.10	ug/L	1	A817440	11/19/18	11/20/18	
Lindane	EPA 505	ND	0.020	ug/L	1	A817440	11/19/18	11/20/18	
Methoxychlor	EPA 505	ND	0.10	ug/L	1	A817440	11/19/18	11/20/18	
PCB Aroclor Screen	EPA 505	ND	0.10	ug/L	1	A817440	11/19/18	11/20/18	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A817440	11/19/18	11/20/18	
Surrogate: 1-Br-2-Nitrobenzene	EPA 505	101 %	<i>Acceptable range: 70-130 %</i>						
<b><u>Chlorinated Acid Herbicides by GC-ECD (40 CFR 141)</u></b>									
2,4,5-T	EPA 515.4	ND	1.0	ug/L	1	A817537	11/20/18	11/22/18	
2,4,5-TP (Silvex)	EPA 515.4	ND	0.20	ug/L	1	A817537	11/20/18	11/22/18	
2,4-D	EPA 515.4	ND	0.10	ug/L	1	A817537	11/20/18	11/22/18	
Bentazon	EPA 515.4	ND	2.0	ug/L	1	A817537	11/20/18	11/22/18	
Dalapon	EPA 515.4	ND	1.0	ug/L	1	A817537	11/20/18	11/22/18	
Dicamba	EPA 515.4	ND	1.5	ug/L	1	A817537	11/20/18	11/22/18	
Dinoseb	EPA 515.4	ND	0.20	ug/L	1	A817537	11/20/18	11/22/18	
Pentachlorophenol	EPA 515.4	ND	0.040	ug/L	1	A817537	11/20/18	11/22/18	
Picloram	EPA 515.4	ND	0.10	ug/L	1	A817537	11/20/18	11/22/18	
Surrogate: DCPAA	EPA 515.4	95 %	<i>Acceptable range: 70-130 %</i>						
<b><u>Semi-Volatile Organics by GC-MS (Federal)</u></b>									
Alachlor	EPA 525.3	ND	0.20	ug/L	1	A817701	11/26/18	11/27/18	
Atrazine	EPA 525.3	ND	0.10	ug/L	1	A817701	11/26/18	11/27/18	
Benzo(a)pyrene	EPA 525.3	ND	0.020	ug/L	1	A817701	11/26/18	11/27/18	
Bis(2-ethylhexyl) adipate	EPA 525.3	ND	0.60	ug/L	1	A817701	11/26/18	11/27/18	
Bis(2-ethylhexyl) phthalate	EPA 525.3	ND	0.60	ug/L	1	A817701	11/26/18	11/27/18	
Bromacil	EPA 525.3	ND	1.0	ug/L	1	A817701	11/26/18	11/27/18	
Butachlor	EPA 525.3	ND	0.38	ug/L	1	A817701	11/26/18	11/27/18	
Diazinon	EPA 525.3	ND	0.25	ug/L	1	A817701	11/26/18	11/27/18	
Dimethoate	EPA 525.3	ND	10	ug/L	1	A817701	11/26/18	11/27/18	
Metolachlor	EPA 525.3	ND	0.50	ug/L	1	A817701	11/26/18	11/27/18	
Metribuzin	EPA 525.3	ND	0.50	ug/L	1	A817701	11/26/18	11/27/18	
Molinate	EPA 525.3	ND	2.0	ug/L	1	A817701	11/26/18	11/27/18	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



**Certificate of Analysis**

**Sample ID:** A8K1989-01  
**Sampled By:** J Flakus  
**Sample Description:** 18110705-02A // W07

**Sample Date - Time:** 11/14/18 - 08:30  
**Matrix:** Drinking Water  
**Sample Type:** Grab

**Organics**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<b><u>Semi-Volatile Organics by GC-MS (Federal)</u></b>									
Propachlor	EPA 525.3	ND	0.50	ug/L	1	A817701	11/26/18	11/27/18	
Simazine	EPA 525.3	ND	0.070	ug/L	1	A817701	11/26/18	11/27/18	
Thiobencarb	EPA 525.3	ND	1.0	ug/L	1	A817701	11/26/18	11/27/18	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.3	90 %	<i>Acceptable range: 70-130 %</i>						
Surrogate: Benzo(a)pyrene-d12	EPA 525.3	113 %	<i>Acceptable range: 70-130 %</i>						
Surrogate: Triphenyl Phosphate	EPA 525.3	94 %	<i>Acceptable range: 70-130 %</i>						
<b><u>Carbamates by HPLC (Federal)</u></b>									
3-Hydroxycarbofuran	EPA 531.1	ND	2.0	ug/L	1	A817435	11/19/18	11/20/18	
Aldicarb	EPA 531.1	ND	0.50	ug/L	1	A817435	11/19/18	11/20/18	
Aldicarb Sulfone	EPA 531.1	ND	0.80	ug/L	1	A817435	11/19/18	11/20/18	
Aldicarb Sulfoxide	EPA 531.1	ND	0.50	ug/L	1	A817435	11/19/18	11/20/18	
Carbaryl	EPA 531.1	ND	2.0	ug/L	1	A817435	11/19/18	11/20/18	
Carbofuran	EPA 531.1	ND	0.90	ug/L	1	A817435	11/19/18	11/20/18	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A817435	11/19/18	11/20/18	
Oxamyl	EPA 531.1	ND	2.0	ug/L	1	A817435	11/19/18	11/20/18	
<b><u>Glyphosate by HPLC (Federal)</u></b>									
Glyphosate	EPA 547	ND	6.0	ug/L	1	A817373	11/18/18	11/19/18	
Surrogate: AMPA	EPA 547	90 %	<i>Acceptable range: 70-130 %</i>						
<b><u>Diquat by HPLC (Federal)</u></b>									
Diquat	EPA 549.2	ND	0.40	ug/L	1	A817546	11/21/18	11/26/18	

**BSK Associates Laboratory Fresno  
Organics Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 504.1 - Quality Control**

**Batch: A817440**

Prepared: 11/19/2018

**Prep Method: EPA 505**

Analyst: VTL

**Blank (A817440-BLK1)**

Dibromochloropropane (DBCP)	ND	0.020	ug/L							11/20/18	
Ethylene Dibromide (EDB)	ND	0.010	ug/L							11/20/18	
Surrogate: 1-Br-2-Nitrobenzene	0.47			0.46		104	70-130			11/20/18	

**Blank Spike (A817440-BS1)**

Dibromochloropropane (DBCP)	0.11	0.020	ug/L	0.10	ND	108	70-130			11/19/18	
Ethylene Dibromide (EDB)	0.11	0.010	ug/L	0.10	ND	111	70-130			11/19/18	
Surrogate: 1-Br-2-Nitrobenzene	0.46			0.46		101	70-130			11/19/18	

**Blank Spike Dup (A817440-BSD1)**

Dibromochloropropane (DBCP)	0.11	0.020	ug/L	0.10	ND	111	70-130	2	20	11/20/18	
Ethylene Dibromide (EDB)	0.11	0.010	ug/L	0.10	ND	112	70-130	1	20	11/20/18	
Surrogate: 1-Br-2-Nitrobenzene	0.53			0.46		116	70-130			11/20/18	

**Matrix Spike (A817440-MS1), Source: A8K1354-01**

Dibromochloropropane (DBCP)	0.21	0.020	ug/L	0.099	0.11	100	65-135			11/20/18	
Ethylene Dibromide (EDB)	0.11	0.010	ug/L	0.099	ND	108	65-135			11/20/18	
Surrogate: 1-Br-2-Nitrobenzene	0.44			0.45		98	70-130			11/20/18	

**EPA 505 - Quality Control**

**Batch: A817440**

Prepared: 11/19/2018

**Prep Method: EPA 505**

Analyst: VTL

**Blank (A817440-BLK1)**

Aldrin	ND	0.075	ug/L							11/20/18	
Chlordane	ND	0.20	ug/L							11/20/18	
Dieldrin	ND	0.020	ug/L							11/20/18	
Endrin	ND	0.010	ug/L							11/20/18	
Heptachlor	ND	0.040	ug/L							11/20/18	
Heptachlor Epoxide	ND	0.020	ug/L							11/20/18	
Hexachlorobenzene	ND	0.10	ug/L							11/20/18	
Hexachlorocyclopentadiene	ND	0.10	ug/L							11/20/18	
Lindane	ND	0.020	ug/L							11/20/18	
Methoxychlor	ND	0.10	ug/L							11/20/18	
PCB Aroclor Screen	ND	0.10	ug/L							11/20/18	
Toxaphene	ND	1.0	ug/L							11/20/18	
Surrogate: 1-Br-2-Nitrobenzene	0.47			0.46		104	70-130			11/20/18	

**Blank Spike (A817440-BS1)**

Aldrin	0.86	0.075	ug/L	0.74	ND	115	70-130			11/19/18	
Dieldrin	0.22	0.020	ug/L	0.20	ND	112	70-130			11/19/18	
Endrin	0.11	0.010	ug/L	0.10	ND	107	70-130			11/19/18	
Heptachlor	0.10	0.040	ug/L	0.10	ND	103	70-130			11/19/18	
Heptachlor Epoxide	0.11	0.020	ug/L	0.10	ND	107	70-130			11/19/18	
Hexachlorobenzene	1.1	0.10	ug/L	1.0	ND	107	70-130			11/19/18	
Hexachlorocyclopentadiene	1.2	0.10	ug/L	1.0	ND	117	70-130			11/19/18	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

A8K1989 FINAL 12042018 1501

**BSK Associates Laboratory Fresno  
Organics Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 505 - Quality Control**

**Batch: A817440**

Prepared: 11/19/2018

**Prep Method: EPA 505**

Analyst: VTL

**Blank Spike (A817440-BS1)**

Lindane	0.21	0.020	ug/L	0.20	ND	106	70-130			11/19/18	
Methoxychlor	1.1	0.10	ug/L	1.0	ND	111	70-130			11/19/18	
Surrogate: 1-Br-2-Nitrobenzene	0.46			0.46		101	70-130			11/19/18	

**Blank Spike Dup (A817440-BSD1)**

Aldrin	0.85	0.075	ug/L	0.74	ND	115	70-130	0	20	11/20/18	
Dieldrin	0.20	0.020	ug/L	0.20	ND	99	70-130	12	20	11/20/18	
Endrin	0.093	0.010	ug/L	0.10	ND	93	70-130	14	20	11/20/18	
Heptachlor	0.10	0.040	ug/L	0.10	ND	105	70-130	2	20	11/20/18	
Heptachlor Epoxide	0.11	0.020	ug/L	0.10	ND	114	70-130	7	20	11/20/18	
Hexachlorobenzene	1.0	0.10	ug/L	1.0	ND	105	70-130	2	20	11/20/18	
Hexachlorocyclopentadiene	0.99	0.10	ug/L	1.0	ND	99	70-130	17	20	11/20/18	
Lindane	0.23	0.020	ug/L	0.20	ND	114	70-130	7	20	11/20/18	
Methoxychlor	1.2	0.10	ug/L	1.0	ND	117	70-130	5	20	11/20/18	
Surrogate: 1-Br-2-Nitrobenzene	0.53			0.46		116	70-130			11/20/18	

**Matrix Spike (A817440-MS1), Source: A8K1354-01**

Aldrin	0.82	0.075	ug/L	0.73	ND	111	65-135			11/20/18	
Dieldrin	0.17	0.020	ug/L	0.20	ND	83	65-135			11/20/18	
Endrin	0.094	0.010	ug/L	0.099	ND	95	65-135			11/20/18	
Heptachlor	0.10	0.040	ug/L	0.099	ND	102	65-135			11/20/18	
Heptachlor Epoxide	0.098	0.020	ug/L	0.099	ND	99	65-135			11/20/18	
Hexachlorobenzene	0.96	0.10	ug/L	0.99	ND	97	65-135			11/20/18	
Hexachlorocyclopentadiene	1.1	0.10	ug/L	0.99	ND	103	65-135			11/20/18	
Lindane	0.21	0.020	ug/L	0.20	ND	104	65-135			11/20/18	
Methoxychlor	1.0	0.10	ug/L	0.99	ND	106	65-135			11/20/18	
Surrogate: 1-Br-2-Nitrobenzene	0.44			0.45		98	70-130			11/20/18	

**EPA 515.4 - Quality Control**

**Batch: A817537**

Prepared: 11/20/2018

**Prep Method: EPA 515.4**

Analyst: VTL

**Blank (A817537-BLK1)**

2,4,5-T	ND	1.0	ug/L							11/22/18	
2,4,5-TP (Silvex)	ND	0.20	ug/L							11/22/18	
2,4-D	ND	0.10	ug/L							11/22/18	
Bentazon	ND	2.0	ug/L							11/22/18	
Dalapon	ND	1.0	ug/L							11/22/18	
Dicamba	ND	1.5	ug/L							11/22/18	
Dinoseb	ND	0.20	ug/L							11/22/18	
Pentachlorophenol	ND	0.040	ug/L							11/22/18	
Picloram	ND	0.10	ug/L							11/22/18	
Surrogate: DCPAA	34			36		94	70-130			11/22/18	

**Blank Spike (A817537-BS1)**

2,4,5-T	1.6	1.0	ug/L	1.6	ND	101	70-130			11/22/18	
---------	-----	-----	------	-----	----	-----	--------	--	--	----------	--

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

A8K1989 FINAL 12042018 1501

**BSK Associates Laboratory Fresno  
Organics Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 515.4 - Quality Control**

Batch: A817537

Prepared: 11/20/2018

Prep Method: EPA 515.4

Analyst: VTL

**Blank Spike (A817537-BS1)**

2,4,5-TP (Silvex)	0.98	0.20	ug/L	0.80	ND	122	70-130			11/22/18	
2,4-D	0.37	0.10	ug/L	0.40	ND	93	70-130			11/22/18	
Bentazon	2.0	2.0	ug/L	2.0	ND	100	70-130			11/22/18	
Dalapon	4.1	1.0	ug/L	4.0	ND	103	70-130			11/22/18	
Dicamba	0.79	1.5	ug/L	0.80	ND	98	70-130			11/22/18	
Dinoseb	0.81	0.20	ug/L	0.80	ND	101	70-130			11/22/18	
Pentachlorophenol	0.16	0.040	ug/L	0.16	ND	101	70-130			11/22/18	
Picloram	0.39	0.10	ug/L	0.40	ND	98	70-130			11/22/18	
Surrogate: DCPAA	33			36		93	70-130			11/22/18	

**Blank Spike Dup (A817537-BSD1)**

2,4,5-T	1.7	1.0	ug/L	1.6	ND	106	70-130	5	20	11/22/18	
2,4,5-TP (Silvex)	0.98	0.20	ug/L	0.80	ND	122	70-130	0	20	11/22/18	
2,4-D	0.36	0.10	ug/L	0.40	ND	89	70-130	4	20	11/22/18	
Bentazon	2.1	2.0	ug/L	2.0	ND	103	70-130	3	20	11/22/18	
Dalapon	4.0	1.0	ug/L	4.0	ND	101	70-130	1	20	11/22/18	
Dicamba	0.78	1.5	ug/L	0.80	ND	98	70-130	0	20	11/22/18	
Dinoseb	0.83	0.20	ug/L	0.80	ND	103	70-130	3	20	11/22/18	
Pentachlorophenol	0.17	0.040	ug/L	0.16	ND	103	70-130	3	20	11/22/18	
Picloram	0.43	0.10	ug/L	0.40	ND	109	70-130	10	20	11/22/18	
Surrogate: DCPAA	34			36		93	70-130			11/22/18	

**Matrix Spike (A817537-MS1), Source: A8K1971-01**

2,4,5-T	1.5	1.0	ug/L	1.6	ND	93	70-130			11/22/18	
2,4,5-TP (Silvex)	0.70	0.20	ug/L	0.80	ND	88	70-130			11/22/18	
2,4-D	0.28	0.10	ug/L	0.40	ND	70	70-130			11/22/18	
Bentazon	1.7	2.0	ug/L	2.0	ND	86	70-130			11/22/18	
Dalapon	4.0	1.0	ug/L	4.0	ND	99	70-130			11/22/18	
Dicamba	0.75	1.5	ug/L	0.80	ND	94	70-130			11/22/18	
Dinoseb	0.73	0.20	ug/L	0.80	ND	92	70-130			11/22/18	
Pentachlorophenol	0.081	0.040	ug/L	0.16	ND	51	70-130			11/22/18	MS1.0 Low
Picloram	0.41	0.10	ug/L	0.40	ND	102	70-130			11/22/18	
Surrogate: DCPAA	33			36		92	70-130			11/22/18	

**Matrix Spike Dup (A817537-MSD1), Source: A8K1971-01**

2,4,5-T	1.5	1.0	ug/L	1.6	ND	96	70-130	3	30	11/22/18	
2,4,5-TP (Silvex)	0.78	0.20	ug/L	0.80	ND	97	70-130	10	30	11/22/18	
2,4-D	0.29	0.10	ug/L	0.40	ND	72	70-130	2	30	11/22/18	
Bentazon	1.7	2.0	ug/L	2.0	ND	87	70-130	1	30	11/22/18	
Dalapon	4.0	1.0	ug/L	4.0	ND	101	70-130	2	30	11/22/18	
Dicamba	0.76	1.5	ug/L	0.80	ND	95	70-130	1	30	11/22/18	
Dinoseb	0.78	0.20	ug/L	0.80	ND	97	70-130	6	30	11/22/18	
Pentachlorophenol	0.081	0.040	ug/L	0.16	ND	51	70-130	1	30	11/22/18	MS1.0 Low
Picloram	0.43	0.10	ug/L	0.40	ND	107	70-130	5	30	11/22/18	
Surrogate: DCPAA	34			36		93	70-130			11/22/18	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

A8K1989 FINAL 12042018 1501

**BSK Associates Laboratory Fresno  
Organics Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 525.3 - Quality Control**

**Batch: A817701**  
**Prep Method: EPA 525.3**

Prepared: 11/26/2018  
Analyst: JKH

**Blank (A817701-BLK1)**

Alachlor	ND	0.20	ug/L							11/27/18	
Atrazine	ND	0.10	ug/L							11/27/18	
Benzo(a)pyrene	ND	0.020	ug/L							11/27/18	
Bis(2-ethylhexyl) adipate	ND	0.60	ug/L							11/27/18	
Bis(2-ethylhexyl) phthalate	ND	0.60	ug/L							11/27/18	
Bromacil	ND	1.0	ug/L							11/27/18	
Butachlor	ND	0.38	ug/L							11/27/18	
Diazinon	ND	0.25	ug/L							11/27/18	
Dimethoate	ND	10	ug/L							11/27/18	
Metolachlor	ND	0.50	ug/L							11/27/18	
Metribuzin	ND	0.50	ug/L							11/27/18	
Molinate	ND	2.0	ug/L							11/27/18	
Propachlor	ND	0.50	ug/L							11/27/18	
Simazine	ND	0.070	ug/L							11/27/18	
Thiobencarb	ND	1.0	ug/L							11/27/18	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	1.0			1.0		102	70-130			11/27/18	
Surrogate: Benzo(a)pyrene-d12	1.1			1.0		114	70-130			11/27/18	
Surrogate: Triphenyl Phosphate	0.99			1.0		99	70-130			11/27/18	

**Blank Spike (A817701-BS1)**

Alachlor	0.88	0.20	ug/L	1.0	ND	88	70-130			11/27/18	
Atrazine	0.40	0.10	ug/L	0.50	ND	80	70-130			11/27/18	
Benzo(a)pyrene	0.11	0.020	ug/L	0.10	ND	111	70-130			11/27/18	
Bis(2-ethylhexyl) adipate	2.0	0.60	ug/L	2.0	ND	99	70-130			11/27/18	
Bis(2-ethylhexyl) phthalate	3.0	0.60	ug/L	3.0	ND	99	70-130			11/27/18	
Bromacil	0.97	1.0	ug/L	1.0	ND	97	70-130			11/27/18	
Butachlor	0.83	0.38	ug/L	1.0	ND	83	70-130			11/27/18	
Diazinon	1.1	0.25	ug/L	1.3	ND	88	70-130			11/27/18	
Dimethoate	1.8	10	ug/L	2.0	ND	90	70-130			11/27/18	
Metolachlor	1.1	0.50	ug/L	1.3	ND	85	70-130			11/27/18	
Metribuzin	0.92	0.50	ug/L	1.0	ND	92	70-130			11/27/18	
Molinate	2.2	2.0	ug/L	2.0	ND	111	70-130			11/27/18	
Propachlor	0.44	0.50	ug/L	0.50	ND	88	70-130			11/27/18	
Simazine	0.32	0.070	ug/L	0.35	ND	93	70-130			11/27/18	
Thiobencarb	0.95	1.0	ug/L	1.0	ND	95	70-130			11/27/18	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	0.97			1.0		97	70-130			11/27/18	

**Blank Spike Dup (A817701-BSD1)**

Alachlor	0.94	0.20	ug/L	1.0	ND	94	70-130	6	30	11/27/18	
Atrazine	0.46	0.10	ug/L	0.50	ND	91	70-130	13	30	11/27/18	
Benzo(a)pyrene	0.11	0.020	ug/L	0.10	ND	109	70-130	2	30	11/27/18	
Bis(2-ethylhexyl) adipate	1.8	0.60	ug/L	2.0	ND	89	70-130	11	30	11/27/18	
Bis(2-ethylhexyl) phthalate	3.0	0.60	ug/L	3.0	ND	99	70-130	0	30	11/27/18	
Bromacil	1.1	1.0	ug/L	1.0	ND	110	70-130	12	30	11/27/18	
Butachlor	0.87	0.38	ug/L	1.0	ND	87	70-130	5	30	11/27/18	
Diazinon	1.1	0.25	ug/L	1.3	ND	89	70-130	1	30	11/27/18	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

A8K1989 FINAL 12042018 1501

**BSK Associates Laboratory Fresno  
Organics Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 525.3 - Quality Control**

**Batch: A817701**

Prepared: 11/26/2018

**Prep Method: EPA 525.3**

Analyst: JKH

**Blank Spike Dup (A817701-BSD1)**

Dimethoate	2.1	10	ug/L	2.0	ND	103	70-130	14	30	11/27/18	
Metolachlor	1.1	0.50	ug/L	1.3	ND	89	70-130	5	30	11/27/18	
Metribuzin	1.0	0.50	ug/L	1.0	ND	101	70-130	9	30	11/27/18	
Molinate	2.2	2.0	ug/L	2.0	ND	110	70-130	0	30	11/27/18	
Propachlor	0.45	0.50	ug/L	0.50	ND	89	70-130	1	30	11/27/18	
Simazine	0.34	0.070	ug/L	0.35	ND	97	70-130	5	30	11/27/18	
Thiobencarb	0.96	1.0	ug/L	1.0	ND	96	70-130	1	30	11/27/18	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	0.99			1.0		99	70-130			11/27/18	

**Matrix Spike (A817701-MS1), Source: A8K1984-01**

Alachlor	1.1	0.20	ug/L	1.3	ND	86	70-130			11/27/18	
Atrazine	0.51	0.10	ug/L	0.65	ND	77	70-130			11/27/18	
Benzo(a)pyrene	0.13	0.020	ug/L	0.13	ND	99	70-130			11/27/18	
Bis(2-ethylhexyl) adipate	2.3	0.60	ug/L	2.6	ND	88	70-130			11/27/18	
Bis(2-ethylhexyl) phthalate	3.7	0.60	ug/L	3.9	ND	87	70-130			11/27/18	
Bromacil	1.2	1.0	ug/L	1.3	ND	90	70-130			11/27/18	
Butachlor	1.1	0.38	ug/L	1.3	ND	82	70-130			11/27/18	
Diazinon	1.3	0.25	ug/L	1.6	ND	77	70-130			11/27/18	
Dimethoate	2.3	10	ug/L	2.6	ND	84	70-130			11/27/18	
Metolachlor	1.3	0.50	ug/L	1.6	ND	80	70-130			11/27/18	
Metribuzin	1.1	0.50	ug/L	1.3	ND	87	70-130			11/27/18	
Molinate	2.6	2.0	ug/L	2.6	ND	99	70-130			11/27/18	
Propachlor	0.54	0.50	ug/L	0.65	ND	82	70-130			11/27/18	
Simazine	0.38	0.070	ug/L	0.46	ND	83	70-130			11/27/18	
Thiobencarb	1.1	1.0	ug/L	1.3	ND	85	70-130			11/27/18	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	0.84			0.93		90	70-130			11/27/18	

**EPA 531.1 - Quality Control**

**Batch: A817435**

Prepared: 11/19/2018

**Prep Method: EPA 531.1**

Analyst: PNN

**Blank (A817435-BLK1)**

3-Hydroxycarbofuran	ND	2.0	ug/L							11/20/18	
Aldicarb	ND	0.50	ug/L							11/20/18	
Aldicarb Sulfone	ND	0.80	ug/L							11/20/18	
Aldicarb Sulfoxide	ND	0.50	ug/L							11/20/18	
Carbaryl	ND	2.0	ug/L							11/20/18	
Carbofuran	ND	0.90	ug/L							11/20/18	
Methomyl	ND	2.0	ug/L							11/20/18	
Oxamyl	ND	2.0	ug/L							11/20/18	

**Blank Spike (A817435-BS1)**

3-Hydroxycarbofuran	8.5	2.0	ug/L	8.7	ND	98	80-120			11/20/18	
Aldicarb	4.5	0.50	ug/L	4.3	ND	103	80-120			11/20/18	
Aldicarb Sulfone	6.9	0.80	ug/L	7.0	ND	99	80-120			11/20/18	
Aldicarb Sulfoxide	4.3	0.50	ug/L	4.3	ND	99	80-120			11/20/18	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

A8K1989 FINAL 12042018 1501

**BSK Associates Laboratory Fresno  
Organics Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 531.1 - Quality Control**

Batch: A817435

Prepared: 11/19/2018

Prep Method: EPA 531.1

Analyst: PNN

**Blank Spike (A817435-BS1)**

Carbaryl	7.9	2.0	ug/L	8.7	ND	91	80-120			11/20/18	
Carbofuran	8.6	0.90	ug/L	7.8	ND	110	80-120			11/20/18	
Methomyl	8.8	2.0	ug/L	8.7	ND	101	80-120			11/20/18	
Oxamyl	8.7	2.0	ug/L	8.7	ND	100	80-120			11/20/18	

**Blank Spike Dup (A817435-BSD1)**

3-Hydroxycarbofuran	8.7	2.0	ug/L	8.7	ND	100	80-120	2	20	11/20/18	
Aldicarb	4.4	0.50	ug/L	4.3	ND	101	80-120	2	20	11/20/18	
Aldicarb Sulfone	6.8	0.80	ug/L	7.0	ND	98	80-120	1	20	11/20/18	
Aldicarb Sulfoxide	4.2	0.50	ug/L	4.3	ND	97	80-120	2	20	11/20/18	
Carbaryl	7.8	2.0	ug/L	8.7	ND	90	80-120	1	20	11/20/18	
Carbofuran	8.6	0.90	ug/L	7.8	ND	110	80-120	0	20	11/20/18	
Methomyl	8.4	2.0	ug/L	8.7	ND	97	80-120	4	20	11/20/18	
Oxamyl	8.5	2.0	ug/L	8.7	ND	97	80-120	2	20	11/20/18	

**Matrix Spike (A817435-MS1), Source: A8J2937-05**

3-Hydroxycarbofuran	8.8	2.0	ug/L	8.7	ND	99	65-135			11/20/18	
Aldicarb	4.5	0.50	ug/L	4.3	0.54	90	65-135			11/20/18	
Aldicarb Sulfone	6.9	0.80	ug/L	7.0	ND	99	65-135			11/20/18	
Aldicarb Sulfoxide	4.4	0.50	ug/L	4.3	ND	101	65-135			11/20/18	
Carbaryl	7.9	2.0	ug/L	8.7	ND	90	65-135			11/20/18	
Carbofuran	11	0.90	ug/L	7.8	ND	138	65-135			11/20/18	MS1.0 High
Methomyl	8.4	2.0	ug/L	8.7	ND	96	65-135			11/20/18	
Oxamyl	8.6	2.0	ug/L	8.7	ND	97	65-135			11/20/18	

**EPA 547 - Quality Control**

Batch: A817373

Prepared: 11/18/2018

Prep Method: EPA 547

Analyst: JNG

**Blank (A817373-BLK1)**

Glyphosate	ND	6.0	ug/L							11/18/18	
Surrogate: AMPA	84			100		84	70-130			11/18/18	

**Blank Spike (A817373-BS1)**

Glyphosate	93	6.0	ug/L	100	ND	93	70-130			11/18/18	
Surrogate: AMPA	100			100		103	70-130			11/18/18	

**Blank Spike Dup (A817373-BSD1)**

Glyphosate	93	6.0	ug/L	100	ND	93	70-130	0	30	11/18/18	
Surrogate: AMPA	94			100		94	70-130			11/18/18	

**Matrix Spike (A817373-MS1), Source: A8K0291-01**

Glyphosate	100	6.0	ug/L	100	ND	100	70-130			11/18/18	
Surrogate: AMPA	110			100		107	70-130			11/18/18	

**Matrix Spike Dup (A817373-MSD1), Source: A8K0291-01**

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

A8K1989 FINAL 12042018 1501

**BSK Associates Laboratory Fresno  
Organics Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 547 - Quality Control**

Batch: A817373

Prepared: 11/18/2018

Prep Method: EPA 547

Analyst: JNG

**Matrix Spike Dup (A817373-MSD1), Source: A8K0291-01**

Glyphosate	95	6.0	ug/L	100	ND	95	70-130	5	30	11/18/18	
Surrogate: AMPA	100			100		103	70-130			11/18/18	

**EPA 549.2 - Quality Control**

Batch: A817546

Prepared: 11/21/2018

Prep Method: EPA 549.2

Analyst: VTL

**Blank (A817546-BLK1)**

Diquat	ND	0.40	ug/L							11/26/18	
--------	----	------	------	--	--	--	--	--	--	----------	--

**Blank Spike (A817546-BS1)**

Diquat	4.1	0.40	ug/L	4.0	ND	102	70-130			11/26/18	
--------	-----	------	------	-----	----	-----	--------	--	--	----------	--

**Blank Spike Dup (A817546-BSD1)**

Diquat	4.2	0.40	ug/L	4.0	ND	104	70-130	2	30	11/26/18	
--------	-----	------	------	-----	----	-----	--------	---	----	----------	--

**Matrix Spike (A817546-MS1), Source: A8K1923-02**

Diquat	1.0	0.40	ug/L	4.0	ND	26	70-130			11/26/18	MS1.0 <b>Low</b>
--------	-----	------	------	-----	----	----	--------	--	--	----------	------------------

**Matrix Spike (A817546-MS2), Source: A8K1937-01**

Diquat	0.90	0.40	ug/L	4.0	ND	23	70-130			11/26/18	MS1.0 <b>Low</b>
--------	------	------	------	-----	----	----	--------	--	--	----------	------------------



**Certificate of Analysis**

**Notes:**

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

**Definitions**

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

**Please see the individual Subcontract Lab's report for applicable certifications.**

**BSK is not accredited under the NELAP program for the following parameters:**

**\*\*NA\*\***

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

**Fresno**

EPA - UCMR4	CA00079	Los Angeles CSD	9254479	NELAP certified	4021-010
State of California - ELAP	1180	State of Hawaii	4021	State of Nevada	CA000792019-1
State of Oregon - NELAP	4021-010	State of Washington	C997-18		

**Sacramento**

State of California - ELAP	2435
----------------------------	------

**San Bernardino**

Los Angeles CSD	9254478	NELAP certified	4119-003	State of California - ELAP	2993
State of Oregon - NELAP	4119-003				

**Vancouver**

NELAP certified	WA100008-011	State of Oregon - NELAP	WA100008-011	State of Washington	C824-18b
-----------------	--------------	-------------------------	--------------	---------------------	----------



A8K1989

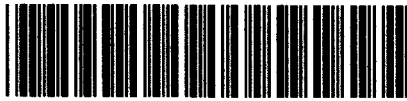


11162018

Sierr2400

Turnaround: Standard

Due Date: 12/4/2018



Sierra Environmental Monitoring



Printed: 11/16/2018 2:43:31PM

Page 18 of 22  
Page 1 of 1  
Page 14 of 16



**CHAIN OF CUSTODY RECORD**

A8K1989  
Sierr2400

10 K55



11/16/2018  
10

COC ID: 4031 PAGE: 1 OF: 1

**ADDRESS**  
Silver State Labs-Reno  
1135 Financial Blvd  
Reno, NV 89502  
TEL: (775) 857-2400  
FAX: (889) 398-7002  
Website: www.ssalabs.com

SUB CONTRACTOR: **BSK-R** COMPANY: **BSK Laboratory**

ADDRESS: **1414 Stanislaus Street**

CITY, STATE, ZIP: **Fresno, CA 93706**

PHONE: **(559) 497-2888**

ACCOUNT #: **18110705**

PO#: **18110705** SAMPLER: **J. Flakus**

ITEM #: **1** SAMPLE ID: **18110705-02A**

Client Sample ID: **W07**

Bottle Type: **Drinking Water**

MATRIX: **Drinking Water**

DATE COLLECTED: **11/14/2018 8:30**

NUMBERS OF CONTAINERS: **16**

ANALYTICAL PARAMETERS:

SUB-SVOC-525-R (SUB) ✓

SUB-PESTPCB 508-R (SUB) ✓

SUB-HERB-515-R (SUB) ✓

SUB-GLYPHOSATE 547-R (E547) ✓

SUB-ENDOTHAL-548-R (E548) ✓

SUB-DICUAT-549-R (E549) ✓

SUB-DBCPEDB-504-R (SUB) ✓

SUB-CARBAMATES 531-R (SUB) ✓

SPECIAL INSTRUCTIONS / COMMENTS:  
Report to: jnavara@ssalabs.com cwood@ssalabs.com

*N.V. Samples*

*2 TRB vs Lot#*

*13*

Relinquished By: <i>SPM/ker</i>	Date: <i>11/15/18</i>	Time: <i>15:30</i>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <i>[Signature]</i>	Date: <i>11/16/18</i>	Time: <i>10:55</i>

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: \_\_\_\_\_

*6 in. w. FX*

# Sample Integrity

BSK Bottles: Yes No

Page 1 of 1



COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	<u>Yes</u> No NA	Were samples received for the tests requested?	<u>Yes</u> No NA		
	If samples were taken today, is there evidence that chilling has begun?	Yes No <u>NA</u>	Bubbles Present VOAs (524.2/TCP/TTHM)? TB Received? (Check Method Below)	Yes <u>No</u> NA <u>Yes</u> No NA		
	Did all bottles arrive unbroken and intact? <input checked="" type="checkbox"/>	Yes <u>No</u>	Was a sufficient amount of sample received?	<u>Yes</u> No		
	Did all bottle labels agree with COC?	<u>Yes</u> No	Do samples have a hold time <72 hours?	Yes <u>No</u>		
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No <u>NA</u>	Was PM notified of discrepancies? PM: <u>Heather</u> By/Time: <u>1100</u>	<u>Yes</u> No <u>NA</u>			
Bottles Received <small>“-” means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	<u>1</u> <u>2</u>		
	BaCl Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	—	—			
	None (P) White Cap	—	—			
	Cr6 (P) Lt. Green Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> DW	Cl, pH > 8	P F			
	Cr6 (P) Pink Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> WW	pH 9.3-9.7	P F			
	Cr6 (P) Black Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> 7199 <b>***24 HOUR HOLD TIME***</b>	pH 9.0-9.5	P F			
	HNO <sub>3</sub> (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—			
	H <sub>2</sub> SO <sub>4</sub> (P) or (AG) Yellow Cap/Label	pH < 2	P F			
	NaOH (P) Green Cap	Cl, pH > 10	P F			
	NaOH + ZnAc (P)	pH > 9	P F			
	Dissolved Oxygen 300ml (g)	—	—			
	None (AG) 606/6061/6062, 625, 632/6321, 6151, 6270	—	—			
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—			
	Ascorbic, EDTA, KH <sub>2</sub> Ct (AG) Pink Label 525	—	—			
	Na <sub>2</sub> SO <sub>3</sub> 250mL (AG) Neon Green Label 515	—	—			
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 1 Liter (Brown P) 549	—	—			
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) Blue Label 548, THM, 524	—	—	<u>X</u>		
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CG) Blue Label 504, 505, 547	—	—	<u>7N</u> <u>W</u>		
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (CG) Orange Label 531	pH < 3	<u>P</u> F <u>N</u>			
	NH <sub>4</sub> Cl (AG) Purple Label 552	—	—			
	EDA (AG) Green Label DBPs	—	—			
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—			
	Buffer pH 4 (CG)	—	—			
	H <sub>3</sub> PO <sub>4</sub> (CG) Salmon Label	—	—			
	Other:					
Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—				
Bottled Water	—	—				
Clear Glass 250mL / 500mL / 1 Liter	—	—				
Solids: Brass / Steel / Plastic Bag	—	—				
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials
	S P			S P		
Comments	* EPA 548 bottle arrived broken			<input checked="" type="checkbox"/> <b>Indicates Blanks Received</b> 504 ___ 524.2 ___ TCP ___ TTHM ___ 537 ___ 8260/624 ___		

11/16/18

Labeled by: MMW @ 14:13

Labels checked by: R @ 1427

**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

COMPPLIANCE MONITORING?  Yes  No  
 NEW ADDRESS?  Yes  No  
 Results:      
 Applicable Program  
 SDWA  CWA  RCRA   
 Mining  Other \_\_\_\_\_  
 QC Level Report  
 I  II  III  IV  
 NOTE: Surcharges apply to Level II, III, and IV reports

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  
 18026

Send Results Via:  
 Mail:  Email:  Fax:   
 Send Invoice Via:  
 Mail:  Email:  Fax:   
 Field Measurements  
 On-Site pH: \_\_\_\_\_ Chlorine: \_\_\_\_\_  
 Temperature: \_\_\_\_\_ Other: \_\_\_\_\_

Date Sampled	Time Sampled	Sample Identification	SSAL - SEM Lab No.	Comp. Grab	Main*	Preservative**	Number / Type of Containers ***	ANALYSES REQUESTED
11/14/18	0830	W07		G	DW	Z	X Socs PH II::II	
		W07		G	DW	Z	X URANIUM	
		W07		G	DW	Z	X SODIUM	

Signature	Print Name	Company	Date	Time
	JAY FLAKUS	City of Yerington, NV	11/14/18	1:09
	JESSY COCHRAN	City of Yerington, NV	11/14/18	1:10
	JOE RAVA	City of Yerington, NV	11/14/18	4:00
	JAY FLAKUS, Public Works Director		11/14/18	1:09

Authorization is required to process samples. This obligates your organization for service fees. SSAL Standard T&C's or other written agreement applies. If collect legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees.  
 Matrix: \* DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other  
 Preservative: \*\* 1=H<sub>2</sub>SO<sub>4</sub>, 2=HNO<sub>3</sub>, 3=HCl, 4=NaOH, 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 6=None, 7=Other

COYPM SDW SAMPLE COC 2018  
 18026



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

## Definitions & Qualifiers

WO#: 18110705

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 received was out of limit as specified by method.