



*Alpha*

Alpha Analytical Laboratories, Inc.

email: [clientservices@alpha-labs.com](mailto:clientservices@alpha-labs.com)

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

26 November 2019

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 8oz. Glass Jar

Work Order: 19K1182

Enclosed are the results of analyses for samples received by the laboratory on 11/11/19 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin

Project Manager



Alpha Analytical Laboratories, Inc. email: [clientservices@alpha-labs.com](mailto:clientservices@alpha-labs.com)  
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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 8oz. Glass Jar  
Project Number: Lot Number H9301CUHS

Reported:  
11/26/19 08:40

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | T: 925-828-6226 | F: 925-828-6309 | ELAP# 2728  
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | T: 916-686-5190 | F: 916-686-5192 | ELAP# 2922  
North Bay: 110 Liberty Street | Petaluma, CA 94952 | T: 707-769-3128 | F: 707-769-8093 | ELAP# 2303  
San Diego Service Center: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
H9301CUHS	19K1182-01	Water	11/11/19 00:00	11/11/19 08:00



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz. Glass Jar  
 Project Number: Lot Number H9301CUHS

Reported:  
 11/26/19 08:40

### Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>H9301CUHS (19K1182-01) Water Sampled: 11/11/19 00:00 Received: 11/11/19 08:00</b>												
Calcium	0.089	0.080	1.0	mg/L	1	AK93803	11/15/19 15:09	11/20/19 14:37	EPA 200.7	MAM	1551	J
Magnesium	ND	0.030	1.0	mg/L	1	AK93803	11/15/19 15:09	11/20/19 14:37	EPA 200.7	MAM	1551	U
Potassium	ND	0.090	1.0	mg/L	1	AK93803	11/15/19 15:09	11/20/19 14:37	EPA 200.7	MAM	1551	U
Sodium	ND	0.40	1.0	mg/L	1	AK93803	11/15/19 15:09	11/20/19 14:37	EPA 200.7	MAM	1551	U



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 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz. Glass Jar  
 Project Number: Lot Number H9301CUHS

Reported:  
 11/26/19 08:40

**Metals by EPA 200 Series Methods**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>H9301CUHS (19K1182-01) Water</b> Sampled: 11/11/19 00:00 Received: 11/11/19 08:00												
Mercury	ND	0.020	0.020	ug/L	1	AK94126	11/25/19 06:19	11/25/19 13:12	EPA 245.1	LMR	1551	U
Tin	0.25	0.050	0.050	mg/L	1	AK93803	11/15/19 15:09	11/20/19 14:37	EPA 200.7	MAM	1551	



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 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz. Glass Jar  
 Project Number: Lot Number H9301CUHS

Reported:  
 11/26/19 08:40

**Metals by EPA Method 200.8 ICP/MS**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>H9301CUHS (19K1182-01) Water Sampled: 11/11/19 00:00 Received: 11/11/19 08:00</b>												
Aluminum	13	5.0	10	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	
Antimony	ND	0.20	0.50	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Arsenic	ND	0.40	0.50	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Barium	3.3	0.20	0.50	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	
Beryllium	ND	0.050	0.10	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Boron	ND	20	50	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Cadmium	ND	0.060	0.10	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Chromium	ND	0.50	0.50	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Cobalt	ND	0.10	0.10	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Copper	1.3	0.40	0.50	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	
Iron	ND	10	50	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Lead	0.16	0.060	0.25	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	J
Manganese	ND	2.0	5.0	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Molybdenum	ND	0.070	0.25	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Nickel	ND	0.30	0.50	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Selenium	ND	0.30	2.0	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Silver	ND	0.050	0.10	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Thallium	ND	0.050	0.10	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Vanadium	ND	0.50	1.0	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U
Zinc	ND	4.0	5.0	ug/L	1	AK93805	11/15/19 15:00	11/18/19 19:50	EPA 200.8	SMP	1551	U



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 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz. Glass Jar  
 Project Number: Lot Number H9301CUHS

Reported:  
 11/26/19 08:40

**Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>H9301CUHS (19K1182-01) Water</b> Sampled: 11/11/19 00:00 Received: 11/11/19 08:00												
Total Organic Carbon	ND	0.300	0.300	mg/L	1	AK93733	11/20/19 09:15	11/20/19 19:10	SM5310C	SLG	1551	U



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz. Glass Jar  
 Project Number: Lot Number H9301CUHS

Reported:  
 11/26/19 08:40

**Anions by EPA Method 300.0**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>H9301CUHS (19K1182-01) Water Sampled: 11/11/19 00:00 Received: 11/11/19 08:00</b>												
Fluoride	ND	0.070	0.10	mg/L	1	AK93589	11/12/19 11:53	11/12/19 11:53	EPA 300.0	SMS	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AK93589	11/12/19 11:53	11/12/19 11:53	EPA 300.0	SMS	1551	U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AK93589	11/12/19 11:53	11/12/19 11:53	EPA 300.0	SMS	1551	U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AK93589	11/12/19 11:53	11/12/19 11:53	EPA 300.0	SMS	1551	U



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz. Glass Jar Project Number: Lot Number H9301CUHS	Reported: 11/26/19 08:40
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**Metals (Drinking Water) by EPA 200 Series Methods - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK93803 - Metals Digest**

<b>Blank (AK93803-BLK1)</b>		Prepared: 11/15/19 Analyzed: 11/18/19									
Calcium	ND	0.080	1.0	mg/L							U
Magnesium	ND	0.030	1.0	mg/L							U
Potassium	ND	0.090	1.0	mg/L							U
Sodium	ND	0.40	1.0	mg/L							U

<b>LCS (AK93803-BS1)</b>		Prepared: 11/15/19 Analyzed: 11/18/19									
Calcium	8.08	0.080	1.0	mg/L	8.00		101	85-115			
Magnesium	8.27	0.030	1.0	mg/L	8.00		103	85-115			
Potassium	8.05	0.090	1.0	mg/L	7.80		103	85-115			
Sodium	7.85	0.40	1.0	mg/L	8.00		98.1	85-115			

<b>Duplicate (AK93803-DUP1)</b>		<b>Source: 19K1722-02</b>		Prepared: 11/15/19 Analyzed: 11/18/19							
Calcium	66.7	0.080	1.0	mg/L		66.2			0.864	20	
Magnesium	12.9	0.030	1.0	mg/L		12.7			1.68	20	
Potassium	3.97	0.090	1.0	mg/L		3.93			1.24	20	
Sodium	16.8	0.40	1.0	mg/L		16.3			2.61	20	

<b>Matrix Spike (AK93803-MS1)</b>		<b>Source: 19K1722-02</b>		Prepared: 11/15/19 Analyzed: 11/18/19							
Calcium	76.6	0.080	1.0	mg/L	8.00	66.2	130	70-130			
Magnesium	21.0	0.030	1.0	mg/L	8.00	12.7	104	70-130			
Potassium	11.9	0.090	1.0	mg/L	7.80	3.93	103	70-130			
Sodium	24.9	0.40	1.0	mg/L	8.00	16.3	107	70-130			

<b>Matrix Spike (AK93803-MS2)</b>		<b>Source: 19K1820-01</b>		Prepared: 11/15/19 Analyzed: 11/18/19							
Calcium	36.5	0.080	1.0	mg/L	8.00	29.5	87.6	70-130			
Magnesium	20.6	0.030	1.0	mg/L	8.00	12.9	96.5	70-130			
Potassium	18.1	0.090	1.0	mg/L	7.80	10.8	93.6	70-130			
Sodium	142	0.40	1.0	mg/L	8.00	138	47.4	70-130			QM-4X

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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz. Glass Jar  
 Project Number: Lot Number H9301CUHS

Reported:  
 11/26/19 08:40

**Metals (Drinking Water) by EPA 200 Series Methods - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK93803 - Metals Digest**

Matrix Spike Dup (AK93803-MSD1)	Source: 19K1722-02			Prepared: 11/15/19 Analyzed: 11/18/19							
Calcium	76.2	0.080	1.0	mg/L	8.00	66.2	125	70-130	0.509	20	
Magnesium	21.1	0.030	1.0	mg/L	8.00	12.7	106	70-130	0.701	20	
Potassium	12.2	0.090	1.0	mg/L	7.80	3.93	106	70-130	2.13	20	
Sodium	24.8	0.40	1.0	mg/L	8.00	16.3	105	70-130	0.591	20	



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz. Glass Jar Project Number: Lot Number H9301CUHS	Reported: 11/26/19 08:40
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**Metals by EPA 200 Series Methods - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK93803 - Metals Digest**

<b>Blank (AK93803-BLK1)</b>					Prepared: 11/15/19 Analyzed: 11/18/19						
Tin	ND	0.050	0.050	mg/L							U
<b>LCS (AK93803-BS1)</b>					Prepared: 11/15/19 Analyzed: 11/18/19						
Tin	0.199	0.050	0.050	mg/L	0.200		99.5	85-115			
<b>Duplicate (AK93803-DUP1)</b>					Source: 19K1722-02 Prepared: 11/15/19 Analyzed: 11/18/19						
Tin	ND	0.050	0.050	mg/L		ND				20	U
<b>Matrix Spike (AK93803-MS1)</b>					Source: 19K1722-02 Prepared: 11/15/19 Analyzed: 11/18/19						
Tin	0.187	0.050	0.050	mg/L	0.200	ND	93.4	70-130			
<b>Matrix Spike (AK93803-MS2)</b>					Source: 19K1820-01 Prepared: 11/15/19 Analyzed: 11/18/19						
Tin	0.192	0.050	0.050	mg/L	0.200	ND	95.9	70-130			
<b>Matrix Spike Dup (AK93803-MSD1)</b>					Source: 19K1722-02 Prepared: 11/15/19 Analyzed: 11/18/19						
Tin	0.191	0.050	0.050	mg/L	0.200	ND	95.4	70-130	2.17	20	

**Batch AK94126 - EPA 245.1 Hg Water**

<b>Blank (AK94126-BLK1)</b>					Prepared & Analyzed: 11/25/19						
Mercury	ND	0.020	0.020	ug/L							U
<b>LCS (AK94126-BS1)</b>					Prepared & Analyzed: 11/25/19						
Mercury	0.270	0.020	0.020	ug/L	0.250		108	85-115			
<b>Duplicate (AK94126-DUP1)</b>					Source: 19K1180-01 Prepared & Analyzed: 11/25/19						
Mercury	ND	0.020	0.020	ug/L		ND				20	U

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Project Manager: Quality Control Manager  
 Project: QC- 8oz. Glass Jar  
 Project Number: Lot Number H9301CUHS

Reported:  
 11/26/19 08:40

**Metals by EPA 200 Series Methods - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK94126 - EPA 245.1 Hg Water**

<b>Matrix Spike (AK94126-MS1)</b>		<b>Source: 19K1180-01</b>			<b>Prepared &amp; Analyzed: 11/25/19</b>						
Mercury	0.261	0.020	0.020	ug/L	0.250	ND	104	70-130			
<b>Matrix Spike Dup (AK94126-MSD1)</b>		<b>Source: 19K1180-01</b>			<b>Prepared &amp; Analyzed: 11/25/19</b>						
Mercury	0.255	0.020	0.020	ug/L	0.250	ND	102	70-130	2.33	20	



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**Metals by EPA Method 200.8 ICP/MS - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK93805 - EPA 200.8**

**Blank (AK93805-BLK1)**

Prepared: 11/15/19 Analyzed: 11/18/19

Aluminum	ND	5.0	10	ug/L							U
Antimony	ND	0.20	0.50	ug/L							U
Arsenic	ND	0.40	0.50	ug/L							U
Barium	ND	0.20	0.50	ug/L							U
Beryllium	ND	0.050	0.10	ug/L							U
Boron	ND	20	50	ug/L							U
Cadmium	ND	0.060	0.10	ug/L							U
Chromium	ND	0.50	0.50	ug/L							U
Cobalt	ND	0.10	0.10	ug/L							U
Copper	0.419	0.40	0.50	ug/L							J
Iron	ND	10	50	ug/L							U
Lead	ND	0.060	0.25	ug/L							U
Manganese	ND	2.0	5.0	ug/L							U
Molybdenum	ND	0.070	0.25	ug/L							U
Nickel	ND	0.30	0.50	ug/L							U
Selenium	ND	0.30	2.0	ug/L							U
Silver	ND	0.050	0.10	ug/L							U
Thallium	ND	0.050	0.10	ug/L							U
Vanadium	ND	0.50	1.0	ug/L							U
Zinc	ND	4.0	5.0	ug/L							U

**LCS (AK93805-BS1)**

Prepared: 11/15/19 Analyzed: 11/18/19

Aluminum	510	5.0	10	ug/L	520		98.0	85-115			
Antimony	19.6	0.20	0.50	ug/L	20.0		98.0	85-115			
Arsenic	19.6	0.40	0.50	ug/L	20.0		98.0	85-115			
Barium	21.5	0.20	0.50	ug/L	20.0		107	85-115			
Beryllium	18.8	0.050	0.10	ug/L	20.0		94.2	85-115			
Boron	108	20	50	ug/L	100		108	85-115			
Cadmium	20.2	0.060	0.10	ug/L	20.0		101	85-115			
Chromium	20.9	0.50	0.50	ug/L	20.0		104	85-115			
Cobalt	21.0	0.10	0.10	ug/L	20.0		105	85-115			
Copper	20.1	0.40	0.50	ug/L	20.0		101	85-115			
Iron	558	10	50	ug/L	520		107	85-115			
Lead	19.7	0.060	0.25	ug/L	20.0		98.3	85-115			
Manganese	21.3	2.0	5.0	ug/L	20.0		106	85-115			
Molybdenum	20.0	0.070	0.25	ug/L	20.0		100	85-115			
Nickel	21.1	0.30	0.50	ug/L	20.0		106	85-115			

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**Metals by EPA Method 200.8 ICP/MS - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK93805 - EPA 200.8**

**LCS (AK93805-BS1)**

Prepared: 11/15/19 Analyzed: 11/18/19

Selenium	19.3	0.30	2.0	ug/L	20.0		96.6	85-115			
Silver	19.8	0.050	0.10	ug/L	20.0		99.0	85-115			
Thallium	19.6	0.050	0.10	ug/L	20.0		98.2	85-115			
Vanadium	21.5	0.50	1.0	ug/L	20.0		107	85-115			
Zinc	100	4.0	5.0	ug/L	100		100	85-115			

**Duplicate (AK93805-DUP1)**

Source: 19K1892-01

Prepared: 11/15/19 Analyzed: 11/18/19

Aluminum	ND	20	40	ug/L		ND				20	R-01, U
Antimony	ND	0.80	2.0	ug/L		ND				20	R-01, U
Arsenic	3.26	1.6	2.0	ug/L		3.14			3.64	20	
Barium	78.6	0.80	2.0	ug/L		78.5			0.126	20	
Beryllium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Boron	952	80	200	ug/L		947			0.488	20	
Cadmium	ND	0.24	0.40	ug/L		ND				20	R-01, U
Chromium	ND	2.0	2.0	ug/L		ND				20	R-01, U
Cobalt	ND	0.40	0.40	ug/L		ND				20	R-01, U
Copper	5.24	1.6	2.0	ug/L		5.47			4.31	20	
Iron	199	40	200	ug/L		207			3.74	20	R-01, J
Lead	ND	0.24	1.0	ug/L		ND				20	R-01, U
Manganese	ND	8.0	20	ug/L		ND				20	R-01, U
Molybdenum	2.80	0.28	1.0	ug/L		2.76			1.26	20	
Nickel	4.05	1.2	2.0	ug/L		4.22			3.93	20	
Selenium	ND	1.2	8.0	ug/L		ND				20	R-01, U
Silver	0.325	0.20	0.40	ug/L		ND			200	20	R-01, J
Thallium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Vanadium	3.04	2.0	4.0	ug/L		3.10			1.99	20	R-01, J
Zinc	ND	16	20	ug/L		ND				20	R-01, U

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz. Glass Jar Project Number: Lot Number H9301CUHS	Reported: 11/26/19 08:40
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**Metals by EPA Method 200.8 ICP/MS - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK93805 - EPA 200.8**

Matrix Spike (AK93805-MS1)	Source: 19K1892-01				Prepared: 11/15/19		Analyzed: 11/18/19	
Aluminum	493	20	40	ug/L	520	ND	94.8	70-130
Antimony	20.3	0.80	2.0	ug/L	20.0	ND	101	70-130
Arsenic	24.8	1.6	2.0	ug/L	20.0	3.14	108	70-130
Barium	98.5	0.80	2.0	ug/L	20.0	78.5	99.9	70-130
Beryllium	18.4	0.20	0.40	ug/L	20.0	ND	92.0	70-130
Boron	1070	80	200	ug/L	100	947	118	70-130
Cadmium	19.7	0.24	0.40	ug/L	20.0	ND	98.5	70-130
Chromium	19.7	2.0	2.0	ug/L	20.0	ND	98.5	70-130
Cobalt	20.3	0.40	0.40	ug/L	20.0	ND	101	70-130
Copper	24.7	1.6	2.0	ug/L	20.0	5.47	96.2	70-130
Iron	736	40	200	ug/L	520	207	102	70-130
Lead	18.7	0.24	1.0	ug/L	20.0	ND	93.7	70-130
Manganese	21.4	8.0	20	ug/L	20.0	ND	107	70-130
Molybdenum	24.2	0.28	1.0	ug/L	20.0	2.76	107	70-130
Nickel	23.5	1.2	2.0	ug/L	20.0	4.22	96.5	70-130
Selenium	21.3	1.2	8.0	ug/L	20.0	ND	106	70-130
Silver	19.2	0.20	0.40	ug/L	20.0	ND	95.8	70-130
Thallium	18.6	0.20	0.40	ug/L	20.0	ND	92.9	70-130
Vanadium	24.6	2.0	4.0	ug/L	20.0	3.10	108	70-130
Zinc	95.4	16	20	ug/L	100	ND	95.4	70-130

Matrix Spike (AK93805-MS2)	Source: 19K1843-01				Prepared: 11/15/19		Analyzed: 11/18/19	
Aluminum	487	20	40	ug/L	520	ND	93.7	70-130
Antimony	19.4	0.80	2.0	ug/L	20.0	ND	96.9	70-130
Arsenic	21.3	1.6	2.0	ug/L	20.0	ND	106	70-130
Barium	115	0.80	2.0	ug/L	20.0	93.4	106	70-130
Beryllium	18.7	0.20	0.40	ug/L	20.0	ND	93.4	70-130
Boron	199	80	200	ug/L	100	98.7	100	70-130
Cadmium	20.2	0.24	0.40	ug/L	20.0	ND	101	70-130
Chromium	22.2	2.0	2.0	ug/L	20.0	ND	111	70-130
Cobalt	20.9	0.40	0.40	ug/L	20.0	ND	105	70-130
Copper	19.9	1.6	2.0	ug/L	20.0	ND	99.6	70-130
Iron	700	40	200	ug/L	520	139	108	70-130
Lead	19.5	0.24	1.0	ug/L	20.0	ND	97.4	70-130
Manganese	21.6	8.0	20	ug/L	20.0	ND	108	70-130
Molybdenum	21.2	0.28	1.0	ug/L	20.0	0.832	102	70-130
Nickel	23.1	1.2	2.0	ug/L	20.0	2.49	103	70-130

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz. Glass Jar Project Number: Lot Number H9301CUHS	Reported: 11/26/19 08:40
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**Metals by EPA Method 200.8 ICP/MS - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK93805 - EPA 200.8**

<b>Matrix Spike (AK93805-MS2)</b>		<b>Source: 19K1843-01</b>			<b>Prepared: 11/15/19</b>		<b>Analyzed: 11/18/19</b>	
Selenium	19.7	1.2	8.0	ug/L	20.0	ND	98.7	70-130
Silver	19.3	0.20	0.40	ug/L	20.0	ND	96.4	70-130
Thallium	19.5	0.20	0.40	ug/L	20.0	ND	97.6	70-130
Vanadium	24.1	2.0	4.0	ug/L	20.0	2.64	107	70-130
Zinc	104	16	20	ug/L	100	ND	104	70-130

<b>Matrix Spike Dup (AK93805-MSD1)</b>		<b>Source: 19K1892-01</b>			<b>Prepared: 11/15/19</b>		<b>Analyzed: 11/18/19</b>			
Aluminum	486	20	40	ug/L	520	ND	93.4	70-130	1.52	20
Antimony	19.8	0.80	2.0	ug/L	20.0	ND	99.0	70-130	2.29	20
Arsenic	24.2	1.6	2.0	ug/L	20.0	3.14	105	70-130	2.41	20
Barium	98.3	0.80	2.0	ug/L	20.0	78.5	99.2	70-130	0.153	20
Beryllium	17.6	0.20	0.40	ug/L	20.0	ND	88.0	70-130	4.44	20
Boron	1060	80	200	ug/L	100	947	113	70-130	0.473	20
Cadmium	19.6	0.24	0.40	ug/L	20.0	ND	97.9	70-130	0.643	20
Chromium	19.5	2.0	2.0	ug/L	20.0	ND	97.4	70-130	1.18	20
Cobalt	20.1	0.40	0.40	ug/L	20.0	ND	101	70-130	0.624	20
Copper	24.0	1.6	2.0	ug/L	20.0	5.47	92.4	70-130	3.12	20
Iron	734	40	200	ug/L	520	207	101	70-130	0.387	20
Lead	18.4	0.24	1.0	ug/L	20.0	ND	92.1	70-130	1.73	20
Manganese	23.2	8.0	20	ug/L	20.0	ND	116	70-130	8.06	20
Molybdenum	23.8	0.28	1.0	ug/L	20.0	2.76	105	70-130	1.72	20
Nickel	23.2	1.2	2.0	ug/L	20.0	4.22	95.0	70-130	1.24	20
Selenium	20.6	1.2	8.0	ug/L	20.0	ND	103	70-130	3.25	20
Silver	18.4	0.20	0.40	ug/L	20.0	ND	92.2	70-130	3.78	20
Thallium	18.2	0.20	0.40	ug/L	20.0	ND	91.0	70-130	2.13	20
Vanadium	24.3	2.0	4.0	ug/L	20.0	3.10	106	70-130	1.42	20
Zinc	108	16	20	ug/L	100	ND	108	70-130	12.3	20

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz. Glass Jar Project Number: Lot Number H9301CUHS	Reported: 11/26/19 08:40
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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch AK93733 - General Prep</b>											
<b>Blank (AK93733-BLK1)</b>					Prepared & Analyzed: 11/20/19						
Total Organic Carbon	ND	0.300	0.300	mg/L							U
<b>LCS (AK93733-BS1)</b>					Prepared & Analyzed: 11/20/19						
Total Organic Carbon	10.6	0.300	0.300	mg/L	10.0		106	85-115			
<b>LCS Dup (AK93733-BSD1)</b>					Prepared & Analyzed: 11/20/19						
Total Organic Carbon	10.7	0.300	0.300	mg/L	10.0		107	85-115	1.09	20	
<b>Duplicate (AK93733-DUP1)</b>					Source: 19K1537-02 Prepared & Analyzed: 11/20/19						
Total Organic Carbon	1.48	0.300	0.300	mg/L		1.39			6.23	20	
<b>Matrix Spike (AK93733-MS1)</b>					Source: 19K1537-02 Prepared & Analyzed: 11/20/19						
Total Organic Carbon	11.7	0.300	0.300	mg/L	10.0	1.39	103	70-130			
<b>Matrix Spike Dup (AK93733-MSD1)</b>					Source: 19K1537-02 Prepared & Analyzed: 11/20/19						
Total Organic Carbon	12.0	0.300	0.300	mg/L	10.0	1.39	107	70-130	3.06	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz. Glass Jar Project Number: Lot Number H9301CUHS	Reported: 11/26/19 08:40
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**Anions by EPA Method 300.0 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK93589 - EPA 300.0**

<b>Blank (AK93589-BLK1)</b>											Prepared & Analyzed: 11/12/19	
Nitrite as NO2	ND	0.20	1.0	mg/L								U
Fluoride	ND	0.070	0.10	mg/L								U
Nitrate as NO3	ND	0.20	1.0	mg/L								U
Sulfate as SO4	ND	0.20	0.50	mg/L								U

<b>LCS (AK93589-BS1)</b>											Prepared & Analyzed: 11/12/19	
Nitrite as NO2	18.5	0.20	1.0	mg/L	18.2		102	90-110				
Nitrate as NO3	25	0.20	1.0	mg/L	24.7		103	90-110				
Fluoride	5.53	0.070	0.10	mg/L	5.56		99.5	90-110				
Sulfate as SO4	22.4	0.20	0.50	mg/L	22.2		101	90-110				

<b>Duplicate (AK93589-DUP1)</b>											Source: 19K1104-07		Prepared & Analyzed: 11/12/19	
Nitrate as NO3	13	0.20	1.0	mg/L		13			2.47	20				
Sulfate as SO4	39.8	0.20	0.50	mg/L		37.9			4.78	20				
Nitrite as NO2	ND	0.20	1.0	mg/L		ND				20		U		
Fluoride	0.0990	0.070	0.10	mg/L		0.101			2.00	20		J		

<b>Matrix Spike (AK93589-MS1)</b>											Source: 19K1104-07		Prepared & Analyzed: 11/12/19	
Nitrate as NO3	36	2.0	10	mg/L	24.7	13	93.7	80-120						
Fluoride	5.13	0.70	1.0	mg/L	5.56	ND	92.4	80-120						
Nitrite as NO2	16.8	2.0	10	mg/L	18.2	ND	92.1	80-120						
Sulfate as SO4	59.3	2.0	5.0	mg/L	22.2	37.9	96.2	80-120						

<b>Matrix Spike (AK93589-MS2)</b>											Source: 19K1306-01		Prepared & Analyzed: 11/12/19	
Nitrate as NO3	22	2.0	10	mg/L	24.7	ND	91.2	80-120						
Fluoride	5.01	0.70	1.0	mg/L	5.56	ND	90.2	80-120						
Sulfate as SO4	27.1	2.0	5.0	mg/L	22.2	7.07	89.9	80-120						
Nitrite as NO2	17.3	2.0	10	mg/L	18.2	ND	95.1	80-120						

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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz. Glass Jar  
 Project Number: Lot Number H9301CUHS

Reported:  
 11/26/19 08:40

**Anions by EPA Method 300.0 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AK93589 - EPA 300.0**

Matrix Spike Dup (AK93589-MSD1)	Source: 19K1104-07			Prepared & Analyzed: 11/12/19							
Nitrate as NO3	36	2.0	10	mg/L	24.7	13	94.3	80-120	0.432	20	
Nitrite as NO2	16.8	2.0	10	mg/L	18.2	ND	92.3	80-120	0.218	20	
Fluoride	5.17	0.70	1.0	mg/L	5.56	ND	93.0	80-120	0.647	20	
Sulfate as SO4	59.7	2.0	5.0	mg/L	22.2	37.9	97.8	80-120	0.598	20	



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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 8oz. Glass Jar  
Project Number: Lot Number H9301CUHS

Reported:  
11/26/19 08:40

### Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- U Analyte included in analysis, but not detected at or above MDL.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- MDL Method detection limit
- Rec Recovery
- RPD Relative Percent Difference



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# Chain of Custody Record

Reports and Invoices will be delivered by email in .pdf format.

Lab No. 19K1182 Page      of     

Report to: Company: Sample Traps LLC Attn: Quality Control Manager Address: Phone/Fax: Email Address: admin@sampletraps.com		Invoice to (if different): Company: Attn: Address: Phone/Fax: Email Address:		Project Info for Report: Project ID: QC- 8oz clear glass jar Project No: Lot number H9301CUHS PO/Reference :		Signature below authorizes work under terms stated on reverse side.									
Samplers Signature: Print: N/A		Container: 40ml VOA Poly Glass bottle Glass Jar		Preservative: HCL Methanol Na Bisulfate Other None Water Container		Matrix: Sample Traps Inorganics TOC Include MDL j-flags		Analyses Requested			TAT 10 days <input type="radio"/> 5 days <input type="radio"/> 48 hours <input checked="" type="radio"/> Other: <input type="radio"/> days		Lab Approval Required For Rush TATs	Sample Notes (lab use only) Temperature: deg. C Shipment Method: Custody Seals: Y / N	
Sample Identification		Sampled: Date Time												Sample Notes or CDPH Source Numbers:	
H9301CUHS		x    x													

**Lab preparation guidelines for determination of Metals content in the Inorganics scan: Please add 100mL of lab-grade DI water to the container, acidify with 1.0 mL of reagent grade HNO3, and then cap and shake vigorously for at least 3 minutes. Let the jar stand for 48 hours. Treat the sample as a dissolved metals sample, and analyze the undigested water.**

**Lab preparation guidelines for determination of Total Organic Carbon: Please add 50mL of lab-grade DI water to the container, and then cap and shake vigorously for at least 3 minutes. Pour the DI water from the jar into a 40mL TOC vial, and then acidify with H3PO4 for TOC analysis.**

Relinquished by: <u>BAL</u>		Received by: <u>[Signature]</u>		Date: <u>11-11-19</u>		Time: <u>0800</u>		CDPH Write On EDT Transmision? <input type="radio"/> Yes <input type="radio"/> No							
								State System Number: _____ If "Y" please enter the Source Number(s) in the column above							
								CA Geotracker EDF Report? <input type="radio"/> Yes <input type="radio"/> No							
								Global ID: _____ EDF to (Email Address): _____ Sampling Company Log Code: _____							
								Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____							