



*Alpha*

Alpha Analytical Laboratories, Inc.

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

24 January 2020

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 16oz Clear Glass Jar

Work Order: 20A1304

Enclosed are the results of analyses for samples received by the laboratory on 01/09/20 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- 16oz Clear Glass Jar  
Project Number: Lot Number R9339CUHS

Reported:  
01/24/20 08:59

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
R9339CUHS	20A1304-01	Water	01/09/20 00:00	01/09/20 08:00



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 16oz Clear Glass Jar  
 Project Number: Lot Number R9339CUHS

Reported:  
 01/24/20 08:59

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>R9339CUHS (20A1304-01) Water Sampled: 01/09/20 00:00 Received: 01/09/20 08:00</b>												
Calcium	0.096	0.080	1.0	mg/L	1	AA04160	01/20/20 12:30	01/22/20 15:37	EPA 200.7	MAM	1551	J
Magnesium	ND	0.030	1.0	mg/L	1	AA04160	01/20/20 12:30	01/22/20 15:37	EPA 200.7	MAM	1551	U
Potassium	ND	0.090	1.0	mg/L	1	AA04160	01/20/20 12:30	01/22/20 15:37	EPA 200.7	MAM	1551	U
Sodium	ND	0.40	1.0	mg/L	1	AA04160	01/20/20 12:30	01/22/20 15:37	EPA 200.7	MAM	1551	U



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 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 16oz Clear Glass Jar  
 Project Number: Lot Number R9339CUHS

Reported:  
 01/24/20 08:59

**Metals by EPA 200 Series Methods**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>R9339CUHS (20A1304-01) Water</b> Sampled: 01/09/20 00:00 Received: 01/09/20 08:00												
Mercury	ND	0.020	0.020	ug/L	1	AA03974	01/17/20 06:26	01/20/20 13:48	EPA 245.1	LMR	1551	U
Tin	ND	0.050	0.050	mg/L	1	AA04160	01/20/20 12:30	01/22/20 15:37	EPA 200.7	MAM	1551	U



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Project Manager: Quality Control Manager  
 Project: QC- 16oz Clear Glass Jar  
 Project Number: Lot Number R9339CUHS

Reported:  
 01/24/20 08:59

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>R9339CUHS (20A1304-01) Water Sampled: 01/09/20 00:00 Received: 01/09/20 08:00</b>												
<b>Aluminum</b>	<b>14</b>	<b>5.0</b>	<b>10</b>	<b>ug/L</b>	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	
Antimony	ND	0.20	0.50	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
Arsenic	ND	0.40	0.50	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
<b>Barium</b>	<b>0.56</b>	<b>0.20</b>	<b>0.50</b>	<b>ug/L</b>	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	
Beryllium	ND	0.050	0.10	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
Boron	ND	20	50	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
Cadmium	ND	0.060	0.10	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
<b>Chromium</b>	<b>0.85</b>	<b>0.50</b>	<b>0.50</b>	<b>ug/L</b>	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	
Cobalt	ND	0.10	0.10	ug/L	1	AA04150	01/20/20 09:35	01/23/20 00:29	EPA 200.8	MB	1551	U
<b>Copper</b>	<b>2.7</b>	<b>0.40</b>	<b>0.50</b>	<b>ug/L</b>	1	AA04150	01/20/20 09:35	01/23/20 00:29	EPA 200.8	MB	1551	
Iron	ND	10	50	ug/L	1	AA04150	01/20/20 09:35	01/23/20 00:29	EPA 200.8	MB	1551	U
Lead	ND	0.060	0.25	ug/L	1	AA04150	01/20/20 09:35	01/23/20 00:29	EPA 200.8	MB	1551	U
Manganese	ND	2.0	5.0	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
Molybdenum	ND	0.070	0.25	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
<b>Nickel</b>	<b>0.40</b>	<b>0.30</b>	<b>0.50</b>	<b>ug/L</b>	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	J
Selenium	ND	0.30	2.0	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
Silver	ND	0.050	0.10	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
Thallium	ND	0.050	0.10	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
Vanadium	ND	0.50	1.0	ug/L	1	AA04150	01/20/20 09:35	01/22/20 05:25	EPA 200.8	MB	1551	U
<b>Zinc</b>	<b>4.9</b>	<b>4.0</b>	<b>5.0</b>	<b>ug/L</b>	1	AA04150	01/20/20 09:35	01/23/20 00:29	EPA 200.8	MB	1551	J



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 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 16oz Clear Glass Jar  
 Project Number: Lot Number R9339CUHS

Reported:  
 01/24/20 08:59

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>R9339CUHS (20A1304-01) Water</b> Sampled: 01/09/20 00:00 Received: 01/09/20 08:00												
Total Organic Carbon	ND	0.300	0.300	mg/L	1	AA03748	01/20/20 14:25	01/21/20 16:08	SM5310C	SLG	1551	U



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Sample Traps, LLC  
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 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 16oz Clear Glass Jar  
 Project Number: Lot Number R9339CUHS

Reported:  
 01/24/20 08:59

**Anions by EPA Method 300.0**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>R9339CUHS (20A1304-01) Water Sampled: 01/09/20 00:00 Received: 01/09/20 08:00</b>												
Fluoride	ND	0.070	0.10	mg/L	1	AA03966	01/17/20 13:13	01/17/20 13:13	EPA 300.0	SMS	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AA03966	01/17/20 13:13	01/17/20 13:13	EPA 300.0	SMS	1551	T-02, U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AA03966	01/17/20 13:13	01/17/20 13:13	EPA 300.0	SMS	1551	T-02, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AA03966	01/17/20 13:13	01/17/20 13:13	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- 16oz Clear Glass Jar Project Number: Lot Number R9339CUHS	Reported: 01/24/20 08:59
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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 AA04160 - Metals Digest**

<b>Blank (AA04160-BLK1)</b>											
						Prepared: 01/20/20 Analyzed: 01/22/20					
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 (AA04160-BS1)</b>											
						Prepared: 01/20/20 Analyzed: 01/22/20					
Calcium	8.02	0.080	1.0	mg/L	8.00		100	85-115			
Magnesium	8.30	0.030	1.0	mg/L	8.00		104	85-115			
Potassium	7.69	0.090	1.0	mg/L	7.80		98.6	85-115			
Sodium	8.50	0.40	1.0	mg/L	8.00		106	85-115			

<b>Duplicate (AA04160-DUP1)</b>											
			<b>Source: 20A1804-01</b>			Prepared: 01/20/20 Analyzed: 01/22/20					
Calcium	5.04	0.080	1.0	mg/L		5.04			0.0554	20	
Magnesium	0.872	0.030	1.0	mg/L		0.883			1.28	20	J
Potassium	3.47	0.090	1.0	mg/L		3.48			0.470	20	
Sodium	1.49	0.40	1.0	mg/L		1.49			0.142	20	

<b>Matrix Spike (AA04160-MS1)</b>											
			<b>Source: 20A1804-01</b>			Prepared: 01/20/20 Analyzed: 01/22/20					
Calcium	13.4	0.080	1.0	mg/L	8.00	5.04	105	70-130			
Magnesium	9.17	0.030	1.0	mg/L	8.00	0.883	104	70-130			
Potassium	11.9	0.090	1.0	mg/L	7.80	3.48	107	70-130			
Sodium	10.1	0.40	1.0	mg/L	8.00	1.49	107	70-130			

<b>Matrix Spike (AA04160-MS2)</b>											
			<b>Source: 20A1588-01</b>			Prepared: 01/20/20 Analyzed: 01/22/20					
Calcium	32.5	0.080	1.0	mg/L	8.00	23.2	116	70-130			
Magnesium	69.1	0.030	1.0	mg/L	8.00	60.4	108	70-130			
Potassium	8.37	0.090	1.0	mg/L	7.80	0.530	100	70-130			
Sodium	14.9	0.40	1.0	mg/L	8.00	6.27	108	70-130			

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.





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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 16oz Clear Glass Jar  
 Project Number: Lot Number R9339CUHS

Reported:  
 01/24/20 08:59

**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 AA04160 - Metals Digest**

Matrix Spike Dup (AA04160-MSD1)	Source: 20A1804-01		Prepared: 01/20/20 Analyzed: 01/22/20								
Calcium	13.3	0.080	1.0	mg/L	8.00	5.04	104	70-130	0.826	20	
Magnesium	9.16	0.030	1.0	mg/L	8.00	0.883	104	70-130	0.118	20	
Potassium	11.9	0.090	1.0	mg/L	7.80	3.48	107	70-130	0.115	20	
Sodium	10.1	0.40	1.0	mg/L	8.00	1.49	108	70-130	0.208	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz Clear Glass Jar Project Number: Lot Number R9339CUHS	Reported: 01/24/20 08:59
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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 AA03974 - EPA 245.1 Hg Water**

<b>Blank (AA03974-BLK1)</b>					Prepared: 01/17/20 Analyzed: 01/20/20						
Mercury	ND	0.020	0.020	ug/L							U
<b>LCS (AA03974-BS1)</b>					Prepared: 01/17/20 Analyzed: 01/20/20						
Mercury	0.254	0.020	0.020	ug/L	0.250		102	85-115			
<b>Duplicate (AA03974-DUP1)</b>					Source: 20A1304-01 Prepared: 01/17/20 Analyzed: 01/20/20						
Mercury	ND	0.020	0.020	ug/L		ND				20	U
<b>Matrix Spike (AA03974-MS1)</b>					Source: 20A1304-01 Prepared: 01/17/20 Analyzed: 01/20/20						
Mercury	0.259	0.020	0.020	ug/L	0.250	ND	104	70-130			
<b>Matrix Spike Dup (AA03974-MSD1)</b>					Source: 20A1304-01 Prepared: 01/17/20 Analyzed: 01/20/20						
Mercury	0.209	0.020	0.020	ug/L	0.250	ND	83.6	70-130	21.4	20	QM-01

**Batch AA04160 - Metals Digest**

<b>Blank (AA04160-BLK1)</b>					Prepared: 01/20/20 Analyzed: 01/22/20						
Tin	ND	0.050	0.050	mg/L							U
<b>LCS (AA04160-BS1)</b>					Prepared: 01/20/20 Analyzed: 01/22/20						
Tin	0.181	0.050	0.050	mg/L	0.200		90.3	85-115			
<b>Duplicate (AA04160-DUP1)</b>					Source: 20A1804-01 Prepared: 01/20/20 Analyzed: 01/22/20						
Tin	ND	0.050	0.050	mg/L		ND				20	U
<b>Matrix Spike (AA04160-MS1)</b>					Source: 20A1804-01 Prepared: 01/20/20 Analyzed: 01/22/20						
Tin	0.185	0.050	0.050	mg/L	0.200	ND	92.6	70-130			

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Project Manager: Quality Control Manager  
 Project: QC- 16oz Clear Glass Jar  
 Project Number: Lot Number R9339CUHS

Reported:  
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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 AA04160 - Metals Digest**

**Matrix Spike (AA04160-MS2)**

Source: 20A1588-01

Prepared: 01/20/20 Analyzed: 01/22/20

Tin	0.183	0.050	0.050	mg/L	0.200	ND	91.6	70-130			
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**Matrix Spike Dup (AA04160-MSD1)**

Source: 20A1804-01

Prepared: 01/20/20 Analyzed: 01/22/20

Tin	0.186	0.050	0.050	mg/L	0.200	ND	92.9	70-130	0.319	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 AA04150 - EPA 200.8**

**Blank (AA04150-BLK1)**

Prepared: 01/20/20 Analyzed: 01/22/20

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	ND	0.40	0.50	ug/L							U
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	0.503	0.50	1.0	ug/L							J
Zinc	ND	4.0	5.0	ug/L							U

**LCS (AA04150-BS1)**

Prepared: 01/20/20 Analyzed: 01/22/20

Aluminum	537	5.0	10	ug/L	520	103	85-115
Antimony	21.6	0.20	0.50	ug/L	20.0	108	85-115
Arsenic	20.5	0.40	0.50	ug/L	20.0	103	85-115
Barium	21.1	0.20	0.50	ug/L	20.0	105	85-115
Beryllium	20.6	0.050	0.10	ug/L	20.0	103	85-115
Boron	103	20	50	ug/L	100	103	85-115
Cadmium	20.8	0.060	0.10	ug/L	20.0	104	85-115
Chromium	20.4	0.50	0.50	ug/L	20.0	102	85-115
Cobalt	19.7	0.10	0.10	ug/L	20.0	98.5	85-115
Copper	20.9	0.40	0.50	ug/L	20.0	104	85-115
Iron	516	10	50	ug/L	520	99.2	85-115
Lead	19.6	0.060	0.25	ug/L	20.0	97.8	85-115
Manganese	18.4	2.0	5.0	ug/L	20.0	92.2	85-115
Molybdenum	20.9	0.070	0.25	ug/L	20.0	104	85-115
Nickel	20.3	0.30	0.50	ug/L	20.0	101	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 AA04150 - EPA 200.8**

**LCS (AA04150-BS1)**

Prepared: 01/20/20 Analyzed: 01/22/20

Selenium	20.9	0.30	2.0	ug/L	20.0		104	85-115			
Silver	20.0	0.050	0.10	ug/L	20.0		100	85-115			
Thallium	19.7	0.050	0.10	ug/L	20.0		98.7	85-115			
Vanadium	20.0	0.50	1.0	ug/L	20.0		99.9	85-115			
Zinc	103	4.0	5.0	ug/L	100		103	85-115			

**Duplicate (AA04150-DUP1)**

Source: 20A2039-01

Prepared: 01/20/20 Analyzed: 01/22/20

Aluminum	67.9	20	40	ug/L		68.4			0.774	20	
Antimony	ND	0.80	2.0	ug/L		ND				20	R-01, U
Arsenic	ND	1.6	2.0	ug/L		ND				20	R-01, U
Barium	31.5	0.80	2.0	ug/L		31.7			0.640	20	
Beryllium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Boron	80.1	80	200	ug/L		80.3			0.233	20	R-01, J
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	2.87	1.6	2.0	ug/L		3.03			5.71	20	
Iron	182	40	200	ug/L		186			2.03	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	1.79	0.28	1.0	ug/L		1.71			4.96	20	
Nickel	9.45	1.2	2.0	ug/L		9.13			3.47	20	
Selenium	1.88	1.2	8.0	ug/L		1.80			4.80	20	R-01, J
Silver	0.419	0.20	0.40	ug/L		0.361			15.0	20	
Thallium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Vanadium	3.41	2.0	4.0	ug/L		ND			200	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- 16oz Clear Glass Jar Project Number: Lot Number R9339CUHS	Reported: 01/24/20 08:59
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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 AA04150 - EPA 200.8**

<b>Matrix Spike (AA04150-MS1)</b>		<b>Source: 20A2039-01</b>			<b>Prepared: 01/20/20</b>		<b>Analyzed: 01/22/20</b>				
Aluminum	594	20	40	ug/L	520	68.4	101	70-130			
Antimony	21.9	0.80	2.0	ug/L	20.0	ND	109	70-130			
Arsenic	22.3	1.6	2.0	ug/L	20.0	ND	111	70-130			
Barium	52.0	0.80	2.0	ug/L	20.0	31.7	101	70-130			
Beryllium	20.3	0.20	0.40	ug/L	20.0	ND	101	70-130			
Boron	186	80	200	ug/L	100	80.3	106	70-130			R-01, J
Cadmium	21.1	0.24	0.40	ug/L	20.0	ND	105	70-130			
Chromium	20.5	2.0	2.0	ug/L	20.0	ND	103	70-130			
Cobalt	19.4	0.40	0.40	ug/L	20.0	ND	97.0	70-130			
Copper	23.0	1.6	2.0	ug/L	20.0	3.03	99.8	70-130			
Iron	645	40	200	ug/L	520	186	88.2	70-130			
Lead	19.4	0.24	1.0	ug/L	20.0	ND	97.2	70-130			
Manganese	19.0	8.0	20	ug/L	20.0	ND	95.1	70-130			R-01, J
Molybdenum	22.7	0.28	1.0	ug/L	20.0	1.71	105	70-130			
Nickel	30.5	1.2	2.0	ug/L	20.0	9.13	107	70-130			
Selenium	21.9	1.2	8.0	ug/L	20.0	1.80	100	70-130			
Silver	20.5	0.20	0.40	ug/L	20.0	0.361	101	70-130			
Thallium	19.5	0.20	0.40	ug/L	20.0	ND	97.5	70-130			
Vanadium	22.4	2.0	4.0	ug/L	20.0	ND	112	70-130			
Zinc	101	16	20	ug/L	100	ND	101	70-130			

<b>Matrix Spike (AA04150-MS2)</b>		<b>Source: 20A2039-02</b>			<b>Prepared: 01/20/20</b>		<b>Analyzed: 01/22/20</b>				
Aluminum	533	20	40	ug/L	520	ND	102	70-130			
Antimony	21.6	0.80	2.0	ug/L	20.0	ND	108	70-130			
Arsenic	21.6	1.6	2.0	ug/L	20.0	ND	108	70-130			
Barium	52.2	0.80	2.0	ug/L	20.0	31.9	101	70-130			
Beryllium	20.2	0.20	0.40	ug/L	20.0	ND	101	70-130			
Boron	182	80	200	ug/L	100	80.7	101	70-130			R-01, J
Cadmium	20.6	0.24	0.40	ug/L	20.0	ND	103	70-130			
Chromium	20.5	2.0	2.0	ug/L	20.0	ND	103	70-130			
Cobalt	19.2	0.40	0.40	ug/L	20.0	ND	95.9	70-130			
Copper	85.4	1.6	2.0	ug/L	20.0	66.1	96.7	70-130			
Iron	1120	40	200	ug/L	520	616	97.4	70-130			
Lead	21.9	0.24	1.0	ug/L	20.0	2.60	96.4	70-130			
Manganese	49.2	8.0	20	ug/L	20.0	30.6	93.2	70-130			
Molybdenum	22.5	0.28	1.0	ug/L	20.0	2.74	98.8	70-130			
Nickel	29.0	1.2	2.0	ug/L	20.0	9.41	98.2	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz Clear Glass Jar Project Number: Lot Number R9339CUHS	Reported: 01/24/20 08:59
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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 AA04150 - EPA 200.8**

<b>Matrix Spike (AA04150-MS2)</b>		<b>Source: 20A2039-02</b>			<b>Prepared: 01/20/20</b>		<b>Analyzed: 01/22/20</b>	
Selenium	21.9	1.2	8.0	ug/L	20.0	ND	109	70-130
Silver	19.6	0.20	0.40	ug/L	20.0	ND	98.1	70-130
Thallium	19.8	0.20	0.40	ug/L	20.0	ND	99.0	70-130
Vanadium	22.3	2.0	4.0	ug/L	20.0	2.94	96.6	70-130
Zinc	145	16	20	ug/L	100	48.1	97.0	70-130

<b>Matrix Spike Dup (AA04150-MSD1)</b>		<b>Source: 20A2039-01</b>			<b>Prepared: 01/20/20</b>		<b>Analyzed: 01/22/20</b>				
Aluminum	598	20	40	ug/L	520	68.4	102	70-130	0.720	20	
Antimony	21.4	0.80	2.0	ug/L	20.0	ND	107	70-130	1.90	20	
Arsenic	21.9	1.6	2.0	ug/L	20.0	ND	110	70-130	1.60	20	
Barium	52.1	0.80	2.0	ug/L	20.0	31.7	102	70-130	0.220	20	
Beryllium	19.8	0.20	0.40	ug/L	20.0	ND	99.0	70-130	2.38	20	
Boron	183	80	200	ug/L	100	80.3	103	70-130	1.60	20	R-01, J
Cadmium	20.5	0.24	0.40	ug/L	20.0	ND	103	70-130	2.49	20	
Chromium	20.5	2.0	2.0	ug/L	20.0	ND	103	70-130	0.0564	20	
Cobalt	19.4	0.40	0.40	ug/L	20.0	ND	97.2	70-130	0.242	20	
Copper	23.2	1.6	2.0	ug/L	20.0	3.03	101	70-130	0.714	20	
Iron	653	40	200	ug/L	520	186	89.8	70-130	1.25	20	
Lead	19.6	0.24	1.0	ug/L	20.0	ND	98.1	70-130	0.967	20	
Manganese	19.0	8.0	20	ug/L	20.0	ND	95.0	70-130	0.0650	20	R-01, J
Molybdenum	22.7	0.28	1.0	ug/L	20.0	1.71	105	70-130	0.150	20	
Nickel	28.9	1.2	2.0	ug/L	20.0	9.13	98.9	70-130	5.30	20	
Selenium	21.8	1.2	8.0	ug/L	20.0	1.80	100	70-130	0.215	20	
Silver	19.9	0.20	0.40	ug/L	20.0	0.361	97.8	70-130	2.74	20	
Thallium	19.7	0.20	0.40	ug/L	20.0	ND	98.7	70-130	1.24	20	
Vanadium	22.4	2.0	4.0	ug/L	20.0	ND	112	70-130	0.0692	20	
Zinc	101	16	20	ug/L	100	ND	101	70-130	0.508	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz Clear Glass Jar Project Number: Lot Number R9339CUHS	Reported: 01/24/20 08:59
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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 AA03748 - General Prep</b>											
<b>Blank (AA03748-BLK1)</b>					Prepared: 01/20/20 Analyzed: 01/21/20						
Total Organic Carbon	ND	0.300	0.300	mg/L							U
<b>LCS (AA03748-BS1)</b>					Prepared: 01/20/20 Analyzed: 01/21/20						
Total Organic Carbon	10.2	0.300	0.300	mg/L	10.0		102	85-115			
<b>LCS Dup (AA03748-BSD1)</b>					Prepared: 01/20/20 Analyzed: 01/21/20						
Total Organic Carbon	10.5	0.300	0.300	mg/L	10.0		105	85-115	2.41	20	
<b>Duplicate (AA03748-DUP1)</b>					Source: 20A0557-02 Prepared: 01/20/20 Analyzed: 01/21/20						
Total Organic Carbon	2.18	0.300	0.300	mg/L		2.20			0.767	20	
<b>Matrix Spike (AA03748-MS1)</b>					Source: 20A0557-01 Prepared: 01/20/20 Analyzed: 01/21/20						
Total Organic Carbon	22.6	0.600	0.600	mg/L	20.0	1.76	104	70-130			
<b>Matrix Spike Dup (AA03748-MSD1)</b>					Source: 20A0557-01 Prepared: 01/20/20 Analyzed: 01/21/20						
Total Organic Carbon	22.6	0.600	0.600	mg/L	20.0	1.76	104	70-130	0.0248	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz Clear Glass Jar Project Number: Lot Number R9339CUHS	Reported: 01/24/20 08:59
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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 AA03966 - EPA 300.0**

<b>Blank (AA03966-BLK1)</b>											Prepared & Analyzed: 01/17/20	
Nitrite as NO2	ND	0.20	1.0	mg/L								U
Nitrate as NO3	ND	0.20	1.0	mg/L								U
Fluoride	ND	0.070	0.10	mg/L								U
Sulfate as SO4	ND	0.20	0.50	mg/L								U

<b>LCS (AA03966-BS1)</b>											Prepared & Analyzed: 01/17/20	
Nitrite as NO2	18.1	0.20	1.0	mg/L	18.2		99.3	90-110				
Fluoride	5.50	0.070	0.10	mg/L	5.56		99.0	90-110				
Nitrate as NO3	25	0.20	1.0	mg/L	24.7		100	90-110				
Sulfate as SO4	22.0	0.20	0.50	mg/L	22.2		99.0	90-110				

<b>Duplicate (AA03966-DUP1)</b>											Source: 20A2074-01		Prepared & Analyzed: 01/17/20	
Nitrite as NO2	ND	0.20	1.0	mg/L		ND					20		U	
Nitrate as NO3	ND	0.20	1.0	mg/L		ND					20		U	
Sulfate as SO4	11.6	0.20	0.50	mg/L		11.6			0.0517		20			
Fluoride	0.0780	0.070	0.10	mg/L		0.0820			5.00		20		J	

<b>Matrix Spike (AA03966-MS1)</b>											Source: 20A2074-01		Prepared & Analyzed: 01/17/20	
Fluoride	4.81	0.70	1.0	mg/L	5.56	ND	86.6	80-120						
Nitrate as NO3	21	2.0	10	mg/L	24.7	ND	86.8	80-120						
Nitrite as NO2	16.1	2.0	10	mg/L	18.2	ND	88.5	80-120						
Sulfate as SO4	30.5	2.0	5.0	mg/L	22.2	11.6	84.9	80-120						

<b>Matrix Spike (AA03966-MS2)</b>											Source: 20A2200-01		Prepared & Analyzed: 01/17/20	
Fluoride	5.04	0.70	1.0	mg/L	5.56	ND	90.8	80-120						
Nitrate as NO3	46	2.0	10	mg/L	24.7	25	84.0	80-120						
Nitrite as NO2	16.1	2.0	10	mg/L	18.2	ND	88.5	80-120						
Sulfate as SO4	32.2	2.0	5.0	mg/L	22.2	14.1	81.9	80-120						

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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 16oz Clear Glass Jar  
 Project Number: Lot Number R9339CUHS

Reported:  
 01/24/20 08:59

**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 AA03966 - EPA 300.0**

**Matrix Spike Dup (AA03966-MSD1)**

Source: 20A2074-01

Prepared & Analyzed: 01/17/20

Fluoride	4.86	0.70	1.0	mg/L	5.56	ND	87.4	80-120	0.920	20	
Nitrate as NO3	21	2.0	10	mg/L	24.7	ND	86.8	80-120	0.0519	20	
Nitrite as NO2	16.2	2.0	10	mg/L	18.2	ND	89.1	80-120	0.678	20	
Sulfate as SO4	30.5	2.0	5.0	mg/L	22.2	11.6	84.9	80-120	0.00	20	



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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 16oz Clear Glass Jar  
Project Number: Lot Number R9339CUHS

Reported:  
01/24/20 08:59

### Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- T-02 Sample analyzed outside of recommended holding time per client.
- 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

