



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

18 March 2022

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 16oz WM Poly

Work Order: 22C1191

Enclosed are the results of analyses for samples received by the laboratory on 03/08/22 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



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 16oz WM Poly
Project Number: Lot Number K2045CUCS

Reported:
03/18/22 15:44

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: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510 | ELAP# 3055

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
K2045CUCS	22C1191-01	Water	03/08/22 00:00	03/08/22 08:00



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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K2045CUCS

Reported:
 03/18/22 15:44

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
K2045CUCS (22C1191-01) Water Sampled: 03/08/22 00:00 Received: 03/08/22 08:00												
Calcium	ND	0.080	1.0	mg/L	1	AC23550	03/09/22 12:05	03/10/22 16:46	EPA 200.7	BED	1551	U
Magnesium	ND	0.030	1.0	mg/L	1	AC23550	03/09/22 12:05	03/10/22 16:46	EPA 200.7	BED	1551	U
Potassium	ND	0.090	1.0	mg/L	1	AC23550	03/09/22 12:05	03/10/22 16:46	EPA 200.7	BED	1551	U
Sodium	ND	0.40	1.0	mg/L	1	AC23550	03/09/22 12:05	03/10/22 16:46	EPA 200.7	BED	1551	U



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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K2045CUCS

Reported:
 03/18/22 15:44

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
K2045CUCS (22C1191-01) Water Sampled: 03/08/22 00:00 Received: 03/08/22 08:00												
Mercury	ND	0.020	0.020	ug/L	1	AC23617	03/10/22 05:49	03/11/22 12:10	EPA 245.1	LMR	1551	U
Tin	ND	0.0060	0.050	mg/L	1	AC23550	03/09/22 12:05	03/10/22 16:46	EPA 200.7	BED	1551	U



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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K2045CUCS

Reported:
 03/18/22 15:44

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
K2045CUCS (22C1191-01) Water Sampled: 03/08/22 00:00 Received: 03/08/22 08:00												
Aluminum	ND	5.0	10	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Antimony	ND	0.20	0.50	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Arsenic	ND	0.40	0.50	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Barium	ND	0.20	0.50	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Beryllium	ND	0.050	0.10	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Boron	ND	8.0	50	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Cadmium	ND	0.060	0.10	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Chromium	ND	0.50	0.50	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Cobalt	ND	0.040	0.10	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Copper	ND	0.40	0.50	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Iron	ND	10	50	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Lead	ND	0.060	0.25	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Manganese	ND	2.0	5.0	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Molybdenum	ND	0.070	0.25	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Nickel	ND	0.30	0.50	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Selenium	ND	0.30	2.0	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Silver	ND	0.050	0.10	ug/L	1	AC23821	03/14/22 15:40	03/16/22 16:00	EPA 200.8	SMP	1551	U
Thallium	ND	0.050	0.10	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Vanadium	ND	0.50	1.0	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U
Zinc	ND	1.0	5.0	ug/L	1	AC23553	03/09/22 08:19	03/11/22 17:10	EPA 200.8	SMP	1551	U



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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K2045CUCS

Reported:
 03/18/22 15:44

Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
K2045CUCS (22C1191-01) Water Sampled: 03/08/22 00:00 Received: 03/08/22 08:00												
Fluoride	ND	0.020	0.10	mg/L	1	AC23555	03/09/22 05:15	03/10/22 05:15	EPA 300.0	SM	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AC23555	03/09/22 00:00	03/10/22 05:15	EPA 300.0	SM	1551	T-03, U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AC23555	03/09/22 00:00	03/10/22 05:15	EPA 300.0	SM	1551	T-03, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AC23555	03/09/22 05:15	03/10/22 05:15	EPA 300.0	SM	1551	U



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz WM Poly Project Number: Lot Number K2045CUCS	Reported: 03/18/22 15:44
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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 AC23550 - Metals Digest

Blank (AC23550-BLK1)		Prepared: 03/09/22 Analyzed: 03/10/22									
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

LCS (AC23550-BS1)		Prepared: 03/09/22 Analyzed: 03/10/22									
Calcium	7.80	0.080	1.0	mg/L	8.00		97.4	85-115			
Magnesium	7.66	0.030	1.0	mg/L	8.00		95.7	85-115			
Potassium	8.02	0.090	1.0	mg/L	8.00		100	85-115			
Sodium	8.05	0.40	1.0	mg/L	8.00		101	85-115			

Duplicate (AC23550-DUP1)		Source: 22C1160-01		Prepared: 03/09/22 Analyzed: 03/10/22							
Calcium	0.333	0.080	1.0	mg/L		0.325			2.64	20	J
Magnesium	0.0790	0.030	1.0	mg/L		0.0810			2.43	20	J
Potassium	0.163	0.090	1.0	mg/L		0.167			2.01	20	J
Sodium	107	0.40	1.0	mg/L		108			1.02	20	

Matrix Spike (AC23550-MS1)		Source: 22C1160-01		Prepared: 03/09/22 Analyzed: 03/10/22							
Calcium	7.97	0.080	1.0	mg/L	8.00	0.325	95.5	70-130			
Magnesium	7.72	0.030	1.0	mg/L	8.00	0.0810	95.5	70-130			
Potassium	8.17	0.090	1.0	mg/L	8.00	0.167	100	70-130			
Sodium	117	0.40	1.0	mg/L	8.00	108	103	70-130			

Matrix Spike (AC23550-MS2)		Source: 22C0566-01		Prepared: 03/09/22 Analyzed: 03/10/22							
Calcium	746	0.080	1.0	mg/L	8.00	748	NR	70-130			QM-4X
Magnesium	11.0	0.030	1.0	mg/L	8.00	3.87	88.8	70-130			
Potassium	8.90	0.090	1.0	mg/L	8.00	0.177	109	70-130			
Sodium	9.89	0.40	1.0	mg/L	8.00	1.76	102	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 WM Poly Project Number: Lot Number K2045CUCS	Reported: 03/18/22 15:44
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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 AC23550 - Metals Digest

Matrix Spike Dup (AC23550-MSD1)	Source: 22C1160-01		Prepared: 03/09/22 Analyzed: 03/10/22								
Calcium	7.99	0.080	1.0	mg/L	8.00	0.325	95.8	70-130	0.257	20	
Magnesium	7.76	0.030	1.0	mg/L	8.00	0.0810	95.9	70-130	0.435	20	
Potassium	8.02	0.090	1.0	mg/L	8.00	0.167	98.2	70-130	1.88	20	
Sodium	115	0.40	1.0	mg/L	8.00	108	79.3	70-130	1.66	20	

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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 AC23550 - Metals Digest

Blank (AC23550-BLK1)					Prepared: 03/09/22 Analyzed: 03/10/22						
Tin	ND	0.0060	0.050	mg/L							U
LCS (AC23550-BS1)					Prepared: 03/09/22 Analyzed: 03/10/22						
Tin	0.196	0.0060	0.050	mg/L	0.200		98.2	85-115			
Duplicate (AC23550-DUP1)					Source: 22C1160-01 Prepared: 03/09/22 Analyzed: 03/10/22						
Tin	ND	0.0060	0.050	mg/L		ND				20	U
Matrix Spike (AC23550-MS1)					Source: 22C1160-01 Prepared: 03/09/22 Analyzed: 03/10/22						
Tin	0.194	0.0060	0.050	mg/L	0.200	ND	96.9	70-130			
Matrix Spike (AC23550-MS2)					Source: 22C0566-01 Prepared: 03/09/22 Analyzed: 03/10/22						
Tin	0.190	0.0060	0.050	mg/L	0.200	ND	94.9	70-130			
Matrix Spike Dup (AC23550-MSD1)					Source: 22C1160-01 Prepared: 03/09/22 Analyzed: 03/10/22						
Tin	0.192	0.0060	0.050	mg/L	0.200	ND	96.2	70-130	0.717	20	

Batch AC23617 - Hg Digest

Blank (AC23617-BLK1)					Prepared: 03/10/22 Analyzed: 03/11/22						
Mercury	ND	0.020	0.020	ug/L							U
LCS (AC23617-BS1)					Prepared: 03/10/22 Analyzed: 03/11/22						
Mercury	0.266	0.020	0.020	ug/L	0.250		106	85-115			
Duplicate (AC23617-DUP1)					Source: 22C1191-01 Prepared: 03/10/22 Analyzed: 03/11/22						
Mercury	ND	0.020	0.020	ug/L		ND				20	U

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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 AC23617 - Hg Digest

Matrix Spike (AC23617-MS1)		Source: 22C1191-01			Prepared: 03/10/22 Analyzed: 03/11/22					
Mercury	0.272	0.020	0.020	ug/L	0.250	ND	109	70-130		
Matrix Spike (AC23617-MS2)		Source: 22C0564-02			Prepared: 03/10/22 Analyzed: 03/11/22					
Mercury	0.286	0.020	0.020	ug/L	0.250	ND	114	70-130		

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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 AC23553 - EPA 200.8

Blank (AC23553-BLK1)

Prepared: 03/09/22 Analyzed: 03/11/22

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	8.0	50	ug/L							U
Cadmium	ND	0.060	0.10	ug/L							U
Chromium	ND	0.50	0.50	ug/L							U
Cobalt	ND	0.040	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
Thallium	ND	0.050	0.10	ug/L							U
Vanadium	ND	0.50	1.0	ug/L							U
Zinc	ND	1.0	5.0	ug/L							U

LCS (AC23553-BS1)

Prepared: 03/09/22 Analyzed: 03/11/22

Aluminum	525	5.0	10	ug/L	520		101	85-115			
Antimony	20.9	0.20	0.50	ug/L	20.0		104	85-115			
Arsenic	20.7	0.40	0.50	ug/L	20.0		104	85-115			
Barium	22.2	0.20	0.50	ug/L	20.0		111	85-115			
Beryllium	20.3	0.050	0.10	ug/L	20.0		102	85-115			
Boron	102	8.0	50	ug/L	100		102	85-115			
Cadmium	20.9	0.060	0.10	ug/L	20.0		104	85-115			
Chromium	21.0	0.50	0.50	ug/L	20.0		105	85-115			
Cobalt	20.6	0.040	0.10	ug/L	20.0		103	85-115			
Copper	21.8	0.40	0.50	ug/L	20.0		109	85-115			
Iron	526	10	50	ug/L	520		101	85-115			
Lead	19.5	0.060	0.25	ug/L	20.0		97.6	85-115			
Manganese	20.7	2.0	5.0	ug/L	20.0		104	85-115			
Molybdenum	20.8	0.070	0.25	ug/L	20.0		104	85-115			
Nickel	20.6	0.30	0.50	ug/L	20.0		103	85-115			
Selenium	20.6	0.30	2.0	ug/L	20.0		103	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 AC23553 - EPA 200.8

LCS (AC23553-BS1)

Prepared: 03/09/22 Analyzed: 03/11/22

Thallium	19.9	0.050	0.10	ug/L	20.0		99.4	85-115			
Vanadium	20.8	0.50	1.0	ug/L	20.0		104	85-115			
Zinc	107	1.0	5.0	ug/L	100		107	85-115			

Duplicate (AC23553-DUP1)

Source: 22C1191-01

Prepared: 03/09/22 Analyzed: 03/11/22

Aluminum	ND	5.0	10	ug/L		ND			20		U
Antimony	ND	0.20	0.50	ug/L		ND			20		U
Arsenic	ND	0.40	0.50	ug/L		ND			20		U
Barium	ND	0.20	0.50	ug/L		ND			20		U
Beryllium	ND	0.050	0.10	ug/L		ND			20		U
Boron	ND	8.0	50	ug/L		ND			20		U
Cadmium	ND	0.060	0.10	ug/L		ND			20		U
Chromium	ND	0.50	0.50	ug/L		ND			20		U
Cobalt	ND	0.040	0.10	ug/L		ND			20		U
Copper	ND	0.40	0.50	ug/L		ND			20		U
Iron	ND	10	50	ug/L		ND			20		U
Lead	ND	0.060	0.25	ug/L		ND			20		U
Manganese	ND	2.0	5.0	ug/L		ND			20		U
Molybdenum	ND	0.070	0.25	ug/L		ND			20		U
Nickel	ND	0.30	0.50	ug/L		ND			20		U
Selenium	ND	0.30	2.0	ug/L		ND			20		U
Thallium	ND	0.050	0.10	ug/L		ND			20		U
Vanadium	ND	0.50	1.0	ug/L		ND			20		U
Zinc	ND	1.0	5.0	ug/L		ND			20		U

MRL Check (AC23553-MRL1)

Prepared: 03/09/22 Analyzed: 03/11/22

Thallium	0.0805	0.050	0.10	ug/L	0.0800		101	0-200			J
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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz WM Poly Project Number: Lot Number K2045CUCS	Reported: 03/18/22 15:44
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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 AC23553 - EPA 200.8

Matrix Spike (AC23553-MS1)	Source: 22C1191-01			Prepared: 03/09/22 Analyzed: 03/11/22							
Aluminum	524	5.0	10	ug/L	520	ND	101	70-130			
Antimony	20.3	0.20	0.50	ug/L	20.0	ND	102	70-130			
Arsenic	20.2	0.40	0.50	ug/L	20.0	ND	101	70-130			
Barium	22.1	0.20	0.50	ug/L	20.0	ND	111	70-130			
Beryllium	18.6	0.050	0.10	ug/L	20.0	ND	92.8	70-130			
Boron	95.0	8.0	50	ug/L	100	ND	95.0	70-130			
Cadmium	20.2	0.060	0.10	ug/L	20.0	ND	101	70-130			
Chromium	20.8	0.50	0.50	ug/L	20.0	ND	104	70-130			
Cobalt	20.3	0.040	0.10	ug/L	20.0	ND	102	70-130			
Copper	22.8	0.40	0.50	ug/L	20.0	ND	114	70-130			
Iron	527	10	50	ug/L	520	ND	101	70-130			
Lead	19.7	0.060	0.25	ug/L	20.0	ND	98.6	70-130			
Manganese	20.5	2.0	5.0	ug/L	20.0	ND	103	70-130			
Molybdenum	20.8	0.070	0.25	ug/L	20.0	ND	104	70-130			
Nickel	20.1	0.30	0.50	ug/L	20.0	ND	101	70-130			
Selenium	19.6	0.30	2.0	ug/L	20.0	ND	97.9	70-130			
Thallium	19.9	0.050	0.10	ug/L	20.0	ND	99.3	70-130			
Vanadium	20.5	0.50	1.0	ug/L	20.0	ND	103	70-130			
Zinc	102	1.0	5.0	ug/L	100	ND	102	70-130			

Matrix Spike (AC23553-MS2)	Source: 22C1110-01			Prepared: 03/09/22 Analyzed: 03/11/22							
Aluminum	567	20	40	ug/L	520	22.6	105	70-130			
Antimony	21.0	0.80	2.0	ug/L	20.0	ND	105	70-130			
Arsenic	20.5	1.6	2.0	ug/L	20.0	ND	102	70-130			
Barium	30.6	0.80	2.0	ug/L	20.0	8.98	108	70-130			
Beryllium	18.8	0.20	0.40	ug/L	20.0	ND	94.1	70-130			
Boron	115	32	200	ug/L	100	ND	115	70-130			J
Cadmium	20.3	0.24	0.40	ug/L	20.0	ND	102	70-130			
Chromium	20.8	2.0	2.0	ug/L	20.0	ND	104	70-130			
Cobalt	20.4	0.16	0.40	ug/L	20.0	ND	102	70-130			
Copper	89.2	1.6	2.0	ug/L	20.0	68.6	103	70-130			
Iron	541	40	50	ug/L	520	ND	104	70-130			
Lead	19.6	0.24	1.0	ug/L	20.0	ND	98.2	70-130			
Manganese	20.6	8.0	20	ug/L	20.0	ND	103	70-130			
Molybdenum	20.7	0.28	1.0	ug/L	20.0	ND	103	70-130			
Nickel	20.3	1.2	2.0	ug/L	20.0	ND	102	70-130			
Selenium	20.6	1.2	8.0	ug/L	20.0	ND	103	70-130			

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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K2045CUCS

Reported:
 03/18/22 15:44

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 AC23553 - EPA 200.8

Matrix Spike (AC23553-MS2)

Source: 22C1110-01

Prepared: 03/09/22 Analyzed: 03/11/22

Thallium	20.0	0.20	0.40	ug/L	20.0	ND	100	70-130			
Vanadium	20.8	2.0	4.0	ug/L	20.0	ND	104	70-130			
Zinc	116	4.0	20	ug/L	100	12.8	103	70-130			

Matrix Spike Dup (AC23553-MSD1)

Source: 22C1191-01

Prepared: 03/09/22 Analyzed: 03/11/22

Aluminum	532	5.0	10	ug/L	520	ND	102	70-130	1.42	20	
Antimony	20.8	0.20	0.50	ug/L	20.0	ND	104	70-130	2.48	20	
Arsenic	20.5	0.40	0.50	ug/L	20.0	ND	102	70-130	1.52	20	
Barium	22.3	0.20	0.50	ug/L	20.0	ND	111	70-130	0.708	20	
Beryllium	18.6	0.050	0.10	ug/L	20.0	ND	93.2	70-130	0.434	20	
Boron	96.8	8.0	50	ug/L	100	ND	96.8	70-130	1.85	20	
Cadmium	20.5	0.060	0.10	ug/L	20.0	ND	103	70-130	1.46	20	
Chromium	20.9	0.50	0.50	ug/L	20.0	ND	105	70-130	0.792	20	
Cobalt	20.7	0.040	0.10	ug/L	20.0	ND	104	70-130	1.89	20	
Copper	21.9	0.40	0.50	ug/L	20.0	ND	109	70-130	3.85	20	
Iron	528	10	50	ug/L	520	ND	102	70-130	0.254	20	
Lead	19.9	0.060	0.25	ug/L	20.0	ND	99.6	70-130	1.03	20	
Manganese	21.1	2.0	5.0	ug/L	20.0	ND	105	70-130	2.52	20	
Molybdenum	21.0	0.070	0.25	ug/L	20.0	ND	105	70-130	1.35	20	
Nickel	20.5	0.30	0.50	ug/L	20.0	ND	103	70-130	1.82	20	
Selenium	19.8	0.30	2.0	ug/L	20.0	ND	98.9	70-130	1.02	20	
Thallium	20.2	0.050	0.10	ug/L	20.0	ND	101	70-130	1.69	20	
Vanadium	20.7	0.50	1.0	ug/L	20.0	ND	104	70-130	0.868	20	
Zinc	104	1.0	5.0	ug/L	100	ND	104	70-130	1.60	20	

Batch AC23821 - EPA 200.8

Blank (AC23821-BLK1)

Prepared: 03/14/22 Analyzed: 03/15/22

Silver	ND	0.050	0.10	ug/L							U
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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz WM Poly Project Number: Lot Number K2045CUCS	Reported: 03/18/22 15:44
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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 AC23821 - EPA 200.8

LCS (AC23821-BS1)		Prepared: 03/14/22 Analyzed: 03/15/22									
Silver	20.4	0.050	0.10	ug/L	20.0		102	85-115			
Duplicate (AC23821-DUP1)		Source: 22C1191-01 Prepared: 03/14/22 Analyzed: 03/16/22									
Silver	ND	0.050	0.10	ug/L		ND				20	U
Matrix Spike (AC23821-MS1)		Source: 22C1191-01 Prepared: 03/14/22 Analyzed: 03/16/22									
Silver	20.8	0.050	0.10	ug/L	20.0	ND	104	70-130			
Matrix Spike (AC23821-MS2)		Source: 22C1230-08 Prepared: 03/14/22 Analyzed: 03/17/22									
Silver	19.6	0.20	0.40	ug/L	20.0	20.2	NR	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz WM Poly Project Number: Lot Number K2045CUCS	Reported: 03/18/22 15:44
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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 AC23555 - EPA 300.0

Blank (AC23555-BLK1)											Prepared & Analyzed: 03/09/22	
Nitrate as NO3	ND	0.20	1.0	mg/L							U	
Sulfate as SO4	ND	0.20	0.50	mg/L							U	
Nitrite as NO2	ND	0.20	1.0	mg/L							U	
Fluoride	ND	0.020	0.10	mg/L							U	

LCS (AC23555-BS1)											Prepared & Analyzed: 03/09/22	
Fluoride	5.11	0.020	0.10	mg/L	5.56		91.9	90-110				
Nitrate as NO3	23	0.20	1.0	mg/L	24.7		92.9	90-110				
Sulfate as SO4	20.4	0.20	0.50	mg/L	22.2		91.7	90-110				
Nitrite as NO2	16.5	0.20	1.0	mg/L	18.2		90.6	90-110				

Duplicate (AC23555-DUP1)											Source: 22C1228-01		Prepared & Analyzed: 03/09/22	
Nitrite as NO2	ND	0.20	1.0	mg/L		ND				20	U			
Sulfate as SO4	24.2	0.20	0.50	mg/L		24.1			0.451	20				
Nitrate as NO3	11	0.20	1.0	mg/L		11			0.291	20				
Fluoride	0.111	0.020	0.10	mg/L		0.111			0.00	20				

Matrix Spike (AC23555-MS1)											Source: 22C1228-01		Prepared & Analyzed: 03/09/22	
Fluoride	4.71	0.20	1.0	mg/L	5.56	ND	84.8	80-120						
Sulfate as SO4	41.7	2.0	5.0	mg/L	22.2	24.1	79.0	80-120			QM-01			
Nitrite as NO2	16.1	2.0	10	mg/L	18.2	ND	88.3	80-120						
Nitrate as NO3	33	2.0	10	mg/L	24.7	11	88.0	80-120						

Matrix Spike (AC23555-MS2)											Source: 22C1271-01		Prepared & Analyzed: 03/09/22	
Fluoride	4.73	0.20	1.0	mg/L	5.56	ND	85.2	80-120						
Nitrite as NO2	16.3	2.0	10	mg/L	18.2	ND	89.3	80-120						
Sulfate as SO4	54.5	2.0	5.0	mg/L	22.2	37.3	77.6	80-120			QM-01			
Nitrate as NO3	45	2.0	10	mg/L	24.7	24	85.1	80-120						

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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K2045CUCS

Reported:
 03/18/22 15:44

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 AC23555 - EPA 300.0

Matrix Spike Dup (AC23555-MSD1)	Source: 22C1228-01			Prepared & Analyzed: 03/09/22							
Sulfate as SO4	41.9	2.0	5.0	mg/L	22.2	24.1	80.0	80-120	0.532	20	
Fluoride	4.73	0.20	1.0	mg/L	5.56	ND	85.2	80-120	0.471	20	
Nitrate as NO3	33	2.0	10	mg/L	24.7	11	89.0	80-120	0.711	20	
Nitrite as NO2	16.3	2.0	10	mg/L	18.2	ND	89.5	80-120	1.35	20	



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 16oz WM Poly
Project Number: Lot Number K2045CUCS

Reported:
03/18/22 15:44

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- P-02 Sample acidified to pH <2 and allowed to sit 24 hours before further processing.
- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- 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.
- T-03 Client did not specify sampling time.
- 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

Non-accredited analytes are reported only when ELAP accreditation for a requested analyte method pair is not available. For a list of accredited analytes, view our certificates at the Company link on our website at www.alpha-labs.com or contact your Project Manager directly.




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Chain of Custody Record

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

Lab No. 21C1191 Page of

Report to: Company: Sample Traps LLC Attn: Quality Control Manager Address: Phone/Fax: Email Address: admin@sampletraps.com		Project Info for Report: Project ID: QC- 16oz WM poly Project No: Lot number K2045CUCS PO/Reference :		Signature: Print: N/A Sampled: Date Time X X		
		Container: 40ml VOA <input checked="" type="checkbox"/> Poly <input checked="" type="checkbox"/> Glass bottle Glass Jar		Preservative: HCL Methanol Na Bisulfate Other None Water Container <input checked="" type="checkbox"/>		Matrix: Total Number of Containers: 4
						Sample Notes or CDPH Source Numbers:
						Sample Notes (lab use only) Temperature: _____ deg. C Shipment Method: Custody Seals: Y / N
						Lab Approval Required For Rush TATs
						TAT 10 days <input type="checkbox"/> RUSH: 5 days <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Other: _____ days <input type="checkbox"/>
						Analyses Requested
						CDPH Write On EDT Transmission? <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): _____ Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____
						Relinquished by: _____ Received by:  Date: 3/8/22 Time: 0800