



Alpha Analytical Laboratories Inc.

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Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 262 Rickenbacker Circle, Livermore, CA 94551 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

18 May 2018

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 8oz WM Poly

Work Order: 18E0405

Enclosed are the results of analyses for samples received by the laboratory on 05/03/18 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- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I8124CUCS	18E0405-01	Water	05/02/18 00:00	05/03/18 08:00



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
I8124CUCS (18E0405-01) Water Sampled: 05/02/18 00:00 Received: 05/03/18 08:00												
Calcium	ND	0.080	1.0		mg/L	1	AE83387	05/09/18 07:30	05/16/18 17:03	EPA 200.7	MAM	U
Magnesium	ND	0.030	1.0		mg/L	1	AE83387	05/09/18 07:30	05/16/18 17:03	EPA 200.7	MAM	U
Potassium	ND	0.090	1.0		mg/L	1	AE83387	05/09/18 07:30	05/16/18 17:03	EPA 200.7	MAM	U
Sodium	ND	0.40	1.0		mg/L	1	AE83387	05/09/18 07:30	05/16/18 17:03	EPA 200.7	MAM	U



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									

I8124CUCS (18E0405-01) Water **Sampled: 05/02/18 00:00** **Received: 05/03/18 08:00**

Mercury	ND	0.010	0.020	ug/L	1	AE83421	05/10/18 12:06	05/11/18 13:22	EPA 245.1	EL		U
Tin	ND	0.020	0.050	mg/L	1	AE83387	05/09/18 07:30	05/16/18 17:03	EPA 200.7	MAM		U



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262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
I8124CUCS (18E0405-01) Water												
Sampled: 05/02/18 00:00 Received: 05/03/18 08:00												
												P-02
Aluminum	16	5.0	10	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		
Antimony	ND	0.20	0.50	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Arsenic	ND	0.20	0.50	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Barium	ND	0.20	0.50	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Beryllium	ND	0.050	0.10	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Boron	ND	20	50	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Cadmium	ND	0.060	0.10	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Chromium	ND	0.40	0.50	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Cobalt	0.044	0.030	0.10	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		J
Copper	1.2	0.40	0.50	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		
Iron	ND	10	50	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Lead	ND	0.060	0.25	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Manganese	ND	2.0	5.0	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Molybdenum	1.6	0.070	0.25	ug/L	1	AE83178	05/04/18 09:45	05/08/18 16:50	EPA 200.8	MMY		
Nickel	ND	0.30	0.50	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Selenium	ND	0.20	2.0	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Silver	ND	0.050	0.10	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Thallium	ND	0.050	0.10	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Vanadium	ND	0.50	1.0	ug/L	1	AE83178	05/04/18 09:45	05/07/18 22:41	EPA 200.8	MMY		U
Zinc	ND	2.0	5.0	ug/L	1	AE83178	05/04/18 09:45	05/08/18 16:50	EPA 200.8	MMY		U



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262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
I8124CUCS (18E0405-01) Water Sampled: 05/02/18 00:00 Received: 05/03/18 08:00												
Fluoride	0.085	0.070	0.10		mg/L	1	AE83160	05/03/18 18:15	05/03/18 18:15	EPA 300.0	SMP	J
Nitrate as NO3	ND	0.20	1.0		mg/L	1	AE83160	05/03/18 18:15	05/03/18 18:15	EPA 300.0	SMP	U
Nitrite as NO2	ND	0.20	1.0		mg/L	1	AE83160	05/03/18 18:15	05/03/18 18:15	EPA 300.0	SMP	U
Sulfate as SO4	ND	0.20	0.50		mg/L	1	AE83160	05/03/18 18:15	05/03/18 18:15	EPA 300.0	SMP	U



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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 AE83387 - Metals Digest

Blank (AE83387-BLK1)

Prepared: 05/09/18 Analyzed: 05/16/18

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 (AE83387-BS1)

Prepared: 05/09/18 Analyzed: 05/16/18

Calcium	7.68	0.080	1.0	mg/L	8.00		96.0	85-115			
Magnesium	8.00	0.030	1.0	mg/L	8.00		100	85-115			
Potassium	7.51	0.090	1.0	mg/L	8.00		93.9	85-115			
Sodium	8.14	0.40	1.0	mg/L	8.00		102	85-115			

Duplicate (AE83387-DUP1)

Source: 18E0275-01

Prepared: 05/09/18 Analyzed: 05/16/18

Calcium	6.75	0.080	1.0	mg/L		6.78			0.429	20	
Magnesium	1.23	0.030	1.0	mg/L		1.21			1.79	20	
Potassium	2.94	0.090	1.0	mg/L		2.92			0.832	20	
Sodium	5.74	0.40	1.0	mg/L		5.72			0.362	20	

Matrix Spike (AE83387-MS1)

Source: 18E0275-01

Prepared: 05/09/18 Analyzed: 05/16/18

Calcium	15.3	0.080	1.0	mg/L	8.00	6.78	106	70-130			
Magnesium	9.28	0.030	1.0	mg/L	8.00	1.21	101	70-130			
Potassium	12.4	0.090	1.0	mg/L	8.00	2.92	119	70-130			
Sodium	14.5	0.40	1.0	mg/L	8.00	5.72	110	70-130			

Matrix Spike (AE83387-MS2)

Source: 18E0432-01

Prepared: 05/09/18 Analyzed: 05/16/18

Calcium	11.3	0.080	1.0	mg/L	8.00	2.92	104	70-130			
Magnesium	11.5	0.030	1.0	mg/L	8.00	3.27	103	70-130			
Potassium	8.66	0.090	1.0	mg/L	8.00	1.03	95.3	70-130			
Sodium	36.1	0.40	1.0	mg/L	8.00	28.6	94.0	70-130			



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Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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 AE83387 - Metals Digest

Matrix Spike Dup (AE83387-MSD1)

Source: 18E0275-01

Prepared: 05/09/18 Analyzed: 05/16/18

Calcium	15.2	0.080	1.0	mg/L	8.00	6.78	106	70-130	0.288	20	
Magnesium	9.17	0.030	1.0	mg/L	8.00	1.21	99.4	70-130	1.25	20	
Potassium	12.1	0.090	1.0	mg/L	8.00	2.92	115	70-130	2.73	20	
Sodium	14.3	0.40	1.0	mg/L	8.00	5.72	108	70-130	0.983	20	



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Reported:
05/18/18 11:19

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 AE83387 - Metals Digest

Blank (AE83387-BLK1)					Prepared: 05/09/18 Analyzed: 05/16/18						
Tin	ND	0.020	0.050	mg/L							U
LCS (AE83387-BS1)					Prepared: 05/09/18 Analyzed: 05/16/18						
Tin	0.181	0.020	0.050	mg/L	0.200		90.7	85-115			
Duplicate (AE83387-DUP1)					Source: 18E0275-01 Prepared: 05/09/18 Analyzed: 05/16/18						
Tin	ND	0.020	0.050	mg/L		ND			20		U
Matrix Spike (AE83387-MS1)					Source: 18E0275-01 Prepared: 05/09/18 Analyzed: 05/16/18						
Tin	0.184	0.020	0.050	mg/L	0.200	ND	92.1	70-130			
Matrix Spike (AE83387-MS2)					Source: 18E0432-01 Prepared: 05/09/18 Analyzed: 05/16/18						
Tin	0.184	0.020	0.050	mg/L	0.200	ND	91.8	70-130			
Matrix Spike Dup (AE83387-MSD1)					Source: 18E0275-01 Prepared: 05/09/18 Analyzed: 05/16/18						
Tin	0.186	0.020	0.050	mg/L	0.200	ND	93.0	70-130	0.998	20	

Batch AE83421 - EPA 245.1 Hg Water

Blank (AE83421-BLK1)					Prepared: 05/10/18 Analyzed: 05/11/18						
Mercury	ND	0.010	0.020	ug/L							U
LCS (AE83421-BS1)					Prepared: 05/10/18 Analyzed: 05/11/18						
Mercury	0.222	0.010	0.020	ug/L	0.250		88.8	85-115			
Duplicate (AE83421-DUP1)					Source: 18E0827-01 Prepared: 05/10/18 Analyzed: 05/11/18						
Mercury	ND	0.010	0.020	ug/L		ND			20		U



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262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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 AE83421 - EPA 245.1 Hg Water

MRL Check (AE83421-MRL1)

Prepared: 05/10/18 Analyzed: 05/11/18

Mercury	0.0230	0.010	0.020	ug/L	0.0500		46.0	0-200			
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Matrix Spike (AE83421-MS1)

Source: 18E0827-01

Prepared: 05/10/18 Analyzed: 05/11/18

Mercury	0.228	0.010	0.020	ug/L	0.250	ND	91.2	70-130			
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Matrix Spike Dup (AE83421-MSD1)

Source: 18E0827-01

Prepared: 05/10/18 Analyzed: 05/11/18

Mercury	0.233	0.010	0.020	ug/L	0.250	ND	93.2	70-130	2.17	20	
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Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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 AE83178 - EPA 200.8

Blank (AE83178-BLK1)

Prepared: 05/04/18 Analyzed: 05/07/18

Aluminum	ND	5.0	10	ug/L							U
Antimony	ND	0.20	0.50	ug/L							U
Arsenic	ND	0.20	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	0.40	0.50	ug/L							U
Cobalt	ND	0.030	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	0.20	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	2.0	5.0	ug/L							U

LCS (AE83178-BS1)

Prepared: 05/04/18 Analyzed: 05/07/18

Aluminum	454	5.0	10	ug/L	520		87.4	85-115			
Antimony	19.5	0.20	0.50	ug/L	20.0		97.7	85-115			
Arsenic	19.7	0.20	0.50	ug/L	20.0		98.4	85-115			
Barium	19.2	0.20	0.50	ug/L	20.0		96.0	85-115			
Beryllium	19.3	0.050	0.10	ug/L	20.0		96.4	85-115			
Boron	96.4	20	50	ug/L	100		96.4	85-115			
Cadmium	19.3	0.060	0.10	ug/L	20.0		96.5	85-115			
Chromium	18.5	0.40	0.50	ug/L	20.0		92.5	85-115			
Cobalt	18.5	0.030	0.10	ug/L	20.0		92.6	85-115			
Copper	18.1	0.40	0.50	ug/L	20.0		90.6	85-115			
Iron	486	10	50	ug/L	520		93.4	85-115			
Lead	18.3	0.060	0.25	ug/L	20.0		91.7	85-115			
Manganese	18.4	2.0	5.0	ug/L	20.0		91.8	85-115			

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- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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 AE83178 - EPA 200.8

LCS (AE83178-BS1)

Prepared: 05/04/18 Analyzed: 05/07/18

Molybdenum	19.3	0.070	0.25	ug/L	20.0		96.6	85-115			
Nickel	18.1	0.30	0.50	ug/L	20.0		90.3	85-115			
Selenium	20.1	0.20	2.0	ug/L	20.0		101	85-115			
Silver	19.5	0.050	0.10	ug/L	20.0		97.5	85-115			
Thallium	18.5	0.050	0.10	ug/L	20.0		92.3	85-115			
Vanadium	18.6	0.50	1.0	ug/L	20.0		92.9	85-115			
Zinc	95.6	2.0	5.0	ug/L	100		95.6	85-115			

Duplicate (AE83178-DUP1)

Source: 18E0398-06

Prepared: 05/04/18 Analyzed: 05/07/18

Aluminum	22.1	20	40	ug/L		26.4			17.7	20	R-01, J
Antimony	ND	0.80	2.0	ug/L		ND				20	U
Arsenic	2.56	0.80	2.0	ug/L		2.23			13.7	20	
Barium	133	0.80	2.0	ug/L		129			3.05	20	
Beryllium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Boron	148	80	200	ug/L		143			3.93	20	R-01, J
Cadmium	ND	0.24	0.40	ug/L		ND				20	R-01, U
Chromium	ND	1.6	2.0	ug/L		ND				20	U
Cobalt	ND	0.12	0.40	ug/L		ND				20	R-01, U
Copper	ND	1.6	2.0	ug/L		ND				20	U
Iron	148	40	200	ug/L		143			3.59	20	R-01, J
Lead	ND	0.24	1.0	ug/L		ND				20	U
Manganese	ND	8.0	20	ug/L		ND				20	U
Molybdenum	3.91	0.28	1.0	ug/L		3.79			3.12	20	
Nickel	1.49	1.2	2.0	ug/L		1.47			1.35	20	J
Selenium	ND	0.80	8.0	ug/L		ND				20	R-01, U
Silver	ND	0.20	0.40	ug/L		ND				20	R-01, U
Thallium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Vanadium	11.5	2.0	4.0	ug/L		11.2			2.41	20	
Zinc	ND	8.0	20	ug/L		ND				20	U



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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 AE83178 - EPA 200.8

Matrix Spike (AE83178-MS1)

Source: 18E0398-06

Prepared: 05/04/18 Analyzed: 05/07/18

Aluminum	527	20	40	ug/L	520	26.4	96.2	70-130			
Antimony	19.9	0.80	2.0	ug/L	20.0	ND	99.4	70-130			
Arsenic	21.6	0.80	2.0	ug/L	20.0	2.23	96.9	70-130			
Barium	144	0.80	2.0	ug/L	20.0	129	75.7	70-130			
Beryllium	18.6	0.20	0.40	ug/L	20.0	ND	92.9	70-130			
Boron	239	80	200	ug/L	100	143	96.8	70-130			
Cadmium	18.9	0.24	0.40	ug/L	20.0	ND	94.7	70-130			
Chromium	18.2	1.6	2.0	ug/L	20.0	ND	91.1	70-130			
Cobalt	18.0	0.12	0.40	ug/L	20.0	ND	89.8	70-130			
Copper	18.1	1.6	2.0	ug/L	20.0	ND	90.5	70-130			
Iron	597	40	200	ug/L	520	143	87.4	70-130			
Lead	17.7	0.24	1.0	ug/L	20.0	ND	88.3	70-130			
Manganese	18.1	8.0	20	ug/L	20.0	ND	90.5	70-130			J
Molybdenum	23.5	0.28	1.0	ug/L	20.0	3.79	98.7	70-130			
Nickel	18.2	1.2	2.0	ug/L	20.0	1.47	83.6	70-130			
Selenium	20.1	0.80	8.0	ug/L	20.0	ND	100	70-130			
Silver	19.0	0.20	0.40	ug/L	20.0	ND	95.2	70-130			
Thallium	17.9	0.20	0.40	ug/L	20.0	ND	89.5	70-130			
Vanadium	29.1	2.0	4.0	ug/L	20.0	11.2	89.8	70-130			
Zinc	95.2	8.0	20	ug/L	100	ND	95.2	70-130			

Matrix Spike (AE83178-MS2)

Source: 18E0330-01

Prepared: 05/04/18 Analyzed: 05/07/18

Aluminum	551	20	40	ug/L	520	ND	106	70-130			
Antimony	20.9	0.80	2.0	ug/L	20.0	ND	104	70-130			
Arsenic	20.9	0.80	2.0	ug/L	20.0	ND	104	70-130			
Barium	158	0.80	2.0	ug/L	20.0	126	161	70-130			QM-01
Beryllium	19.8	0.20	0.40	ug/L	20.0	ND	98.9	70-130			
Boron	201	80	200	ug/L	100	91.4	110	70-130			
Cadmium	20.2	0.24	0.40	ug/L	20.0	ND	101	70-130			
Chromium	18.7	1.6	2.0	ug/L	20.0	ND	93.4	70-130			
Cobalt	19.1	0.12	0.40	ug/L	20.0	0.196	94.7	70-130			
Copper	20.2	1.6	2.0	ug/L	20.0	1.70	92.5	70-130			
Iron	620	40	200	ug/L	520	111	97.8	70-130			
Lead	18.9	0.24	1.0	ug/L	20.0	0.293	92.9	70-130			
Manganese	184	8.0	20	ug/L	20.0	150	169	70-130			QM-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.



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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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 AE83178 - EPA 200.8

Matrix Spike (AE83178-MS2)

Source: 18E0330-01

Prepared: 05/04/18 Analyzed: 05/07/18

Molybdenum	23.2	0.28	1.0	ug/L	20.0	2.37	104	70-130			
Nickel	19.0	1.2	2.0	ug/L	20.0	ND	94.9	70-130			
Selenium	20.2	0.80	8.0	ug/L	20.0	ND	101	70-130			
Silver	19.9	0.20	0.40	ug/L	20.0	ND	99.6	70-130			
Thallium	18.9	0.20	0.40	ug/L	20.0	ND	94.3	70-130			
Vanadium	21.3	2.0	4.0	ug/L	20.0	2.14	96.0	70-130			
Zinc	102	8.0	20	ug/L	100	ND	102	70-130			

Matrix Spike Dup (AE83178-MSD1)

Source: 18E0398-06

Prepared: 05/04/18 Analyzed: 05/07/18

Aluminum	529	20	40	ug/L	520	26.4	96.6	70-130	0.385	20	
Antimony	19.6	0.80	2.0	ug/L	20.0	ND	98.0	70-130	1.48	20	
Arsenic	22.1	0.80	2.0	ug/L	20.0	2.23	99.3	70-130	2.15	20	
Barium	144	0.80	2.0	ug/L	20.0	129	74.3	70-130	0.193	20	
Beryllium	18.2	0.20	0.40	ug/L	20.0	ND	91.0	70-130	2.03	20	
Boron	233	80	200	ug/L	100	143	89.9	70-130	2.95	20	
Cadmium	19.2	0.24	0.40	ug/L	20.0	ND	96.2	70-130	1.61	20	
Chromium	18.3	1.6	2.0	ug/L	20.0	ND	91.3	70-130	0.191	20	
Cobalt	18.4	0.12	0.40	ug/L	20.0	ND	92.1	70-130	2.54	20	
Copper	18.2	1.6	2.0	ug/L	20.0	ND	91.1	70-130	0.577	20	
Iron	596	40	200	ug/L	520	143	87.3	70-130	0.124	20	
Lead	17.4	0.24	1.0	ug/L	20.0	ND	87.2	70-130	1.27	20	
Manganese	18.0	8.0	20	ug/L	20.0	ND	90.0	70-130	0.594	20	J
Molybdenum	23.7	0.28	1.0	ug/L	20.0	3.79	99.4	70-130	0.608	20	
Nickel	18.0	1.2	2.0	ug/L	20.0	1.47	82.9	70-130	0.760	20	
Selenium	20.3	0.80	8.0	ug/L	20.0	ND	102	70-130	1.28	20	
Silver	18.6	0.20	0.40	ug/L	20.0	ND	93.1	70-130	2.17	20	
Thallium	17.7	0.20	0.40	ug/L	20.0	ND	88.5	70-130	1.13	20	
Vanadium	28.8	2.0	4.0	ug/L	20.0	11.2	88.3	70-130	0.990	20	
Zinc	93.5	8.0	20	ug/L	100	ND	93.5	70-130	1.74	20	

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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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 AE83160 - General Preparation

Blank (AE83160-BLK1)

Prepared & Analyzed: 05/03/18

Nitrite as NO2	ND	0.20	1.0	mg/L							U
Sulfate as SO4	ND	0.20	0.50	mg/L							U
Nitrate as NO3	ND	0.20	1.0	mg/L							U
Fluoride	ND	0.070	0.10	mg/L							U

LCS (AE83160-BS1)

Prepared & Analyzed: 05/03/18

Nitrite as NO2	18.2	0.20	1.0	mg/L	18.2		100	90-110			
Fluoride	5.80	0.070	0.10	mg/L	5.56		104	90-110			
Nitrate as NO3	25	0.20	1.0	mg/L	24.7		103	90-110			
Sulfate as SO4	22.6	0.20	0.50	mg/L	22.2		102	90-110			

Duplicate (AE83160-DUP1)

Source: 18E0311-01

Prepared & Analyzed: 05/03/18

Nitrate as NO3	0.23	0.20	1.0	mg/L		0.23			0.00	20	J
Nitrite as NO2	ND	0.20	1.0	mg/L		ND				20	U
Sulfate as SO4	3.83	0.20	0.50	mg/L		3.85			0.494	20	
Fluoride	0.109	0.070	0.10	mg/L		0.109			0.00	20	

Matrix Spike (AE83160-MS1)

Source: 18E0311-01

Prepared & Analyzed: 05/03/18

Nitrite as NO2	18.9	0.20	1.0	mg/L	18.2	ND	103	80-120			
Nitrate as NO3	26	0.20	1.0	mg/L	24.7	0.23	103	80-120			
Fluoride	5.91	0.070	0.10	mg/L	5.56	0.109	104	80-120			
Sulfate as SO4	26.6	0.20	0.50	mg/L	22.2	3.85	102	80-120			

Matrix Spike (AE83160-MS2)

Source: 18E0385-02

Prepared & Analyzed: 05/04/18

Nitrite as NO2	17.0	1.0	5.0	mg/L	18.2	ND	93.1	80-120			
Fluoride	5.49	0.35	0.50	mg/L	5.56	ND	98.8	80-120			
Nitrate as NO3	24	1.0	5.0	mg/L	24.7	ND	98.1	80-120			
Sulfate as SO4	34.6	1.0	2.5	mg/L	22.2	13.3	95.6	80-120			



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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 AE83160 - General Preparation

Matrix Spike Dup (AE83160-MSD1)

Source: 18E0311-01

Prepared & Analyzed: 05/03/18

Nitrite as NO ₂	19.3	0.20	1.0	mg/L	18.2	ND	106	80-120	2.49	20	
Sulfate as SO ₄	27.0	0.20	0.50	mg/L	22.2	3.85	104	80-120	1.32	20	
Fluoride	6.00	0.070	0.10	mg/L	5.56	0.109	106	80-120	1.49	20	
Nitrate as NO ₃	26	0.20	1.0	mg/L	24.7	0.23	105	80-120	1.56	20	



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 8oz WM Poly
Project Number: Lot Number I8124CUCS

Reported:
05/18/18 11:19

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.
- 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. 18E0405 Page of

Report to:		Invoice to (if different):		Project Info for Report:		Signature below authorizes work under terms stated on reverse side.															
Company:		Company:		Project ID:		Analyses Requested							TAT	Lab Approval Required For Rush TATs	Sample Notes (lab use only)						
Sample Traps LLC				QC- 8oz WM poly											Temperature:						
Attn:		Attn:		Project No:		: Total Number of Containers		Sample Traps Inorganics		Include MDL i-flags		<input checked="" type="radio"/> 10 days <input type="radio"/> RUSH: <input type="radio"/> 5 days <input type="radio"/> 48 hours <input type="radio"/> Other: ___ days <input type="radio"/>		deg. C							
Quality Control Manager				Lot Number I8124CUCS										Shipment Method:							
Address:		Address:		PO/Reference :		: Total Number of Containers		Sample Traps Inorganics		Include MDL i-flags		<input type="radio"/> Other: ___ days <input type="radio"/>		Custody Seals: Y / N							
Phone/Fax:		Phone/Fax:												Sample Notes or CDPH Source Numbers:							
Email Address:		Email Address:																			
admin@sampletraps.com																					
Samplers Signature:			Container:			Preservative:			Matrix:												
Print: N/A			40ml VOA	Poly	Glass bottle	Glass Jar	HCL	Methanol	Na Bisulfate	Other	None	Water	Container								
Sample Identification		Sampled:																			
		Date	Time	40ml VOA	Poly	Glass bottle	Glass Jar	HCL	Methanol	Na Bisulfate	Other	None	Water	Container	Total Number of Containers	Sample Traps Inorganics	Include MDL i-flags				
I8124CUCS		x	x	x										x	x						

Relinquished by: Via Sample Traps Received by: [Signature] Date: 5-31-8 Time: 0800

CDPH Write On EDT Transmission? Yes No
State System Number: _____
If "Y" please enter the Source Number(s) in the column above

CA Geotracker EDF Report? Yes No

Global ID: _____ Sampling Company Log Code: _____
EDF to (Email Address): _____
Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____