



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

16 October 2018

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 4oz WM Poly

Work Order: 18J0025

Enclosed are the results of analyses for samples received by the laboratory on 09/27/18 07:30. 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.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P8223CUCS	18J0025-01	Water	10/01/18 00:00	09/27/18 07:30



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
P8223CUCS (18J0025-01) Water Sampled: 10/01/18 00:00 Received: 09/27/18 07:30												
Calcium	0.085	0.080	1.0		mg/L	1	AJ83557	10/11/18 07:40	10/12/18 16:33	EPA 200.7	MAM	J
Magnesium	ND	0.030	1.0		mg/L	1	AJ83557	10/11/18 07:40	10/12/18 16:33	EPA 200.7	MAM	U
Potassium	ND	0.090	1.0		mg/L	1	AJ83557	10/11/18 07:40	10/12/18 16:33	EPA 200.7	MAM	U
Sodium	ND	0.40	1.0		mg/L	1	AJ83557	10/11/18 07:40	10/12/18 16:33	EPA 200.7	MAM	U



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
P8223CUCS (18J0025-01) Water Sampled: 10/01/18 00:00 Received: 09/27/18 07:30												
Mercury	ND	0.020	0.020		ug/L	1	AJ83494	10/09/18 07:14	10/09/18 17:31	EPA 245.1	LMR	U
Tin	ND	0.050	0.050		mg/L	1	AJ83557	10/11/18 07:40	10/12/18 16:33	EPA 200.7	MAM	U



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
P8223CUCS (18J0025-01) Water Sampled: 10/01/18 00:00 Received: 09/27/18 07:30												
Aluminum	10	5.0	10	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		
Antimony	ND	0.20	0.50	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Arsenic	ND	0.20	0.50	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Barium	ND	0.20	0.50	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Beryllium	ND	0.050	0.10	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Boron	110	20	50	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		
Cadmium	ND	0.060	0.10	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Chromium	ND	0.50	0.50	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Cobalt	ND	0.10	0.10	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Copper	ND	0.40	0.50	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Iron	ND	10	50	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Lead	ND	0.060	0.25	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Manganese	ND	2.0	5.0	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Molybdenum	ND	0.070	0.25	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Nickel	ND	0.30	0.50	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Selenium	ND	0.30	2.0	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Silver	ND	0.050	0.10	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Thallium	ND	0.050	0.10	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Vanadium	ND	0.50	1.0	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U
Zinc	ND	2.0	5.0	ug/L	1	AJ83446	10/08/18 11:17	10/09/18 18:18	EPA 200.8	MMY		U



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
P8223CUCS (18J0025-01) Water Sampled: 10/01/18 00:00 Received: 09/27/18 07:30												
Fluoride	ND	0.070	0.10		mg/L	1	AJ83151	10/01/18 21:43	10/01/18 21:43	EPA 300.0	SMP	U
Nitrate as NO3	ND	0.20	1.0		mg/L	1	AJ83151	10/01/18 21:43	10/01/18 21:43	EPA 300.0	SMP	U
Nitrite as NO2	ND	0.20	1.0		mg/L	1	AJ83151	10/01/18 21:43	10/01/18 21:43	EPA 300.0	SMP	U
Sulfate as SO4	ND	0.20	0.50		mg/L	1	AJ83151	10/01/18 21:43	10/01/18 21:43	EPA 300.0	SMP	U



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ83557 - Metals Digest

Blank (AJ83557-BLK1)

Prepared: 10/11/18 Analyzed: 10/12/18

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 (AJ83557-BS1)

Prepared: 10/11/18 Analyzed: 10/12/18

Calcium	7.77	0.080	1.0	mg/L	8.00		97.1	85-115			
Magnesium	7.79	0.030	1.0	mg/L	8.00		97.3	85-115			
Potassium	7.60	0.090	1.0	mg/L	8.00		95.1	85-115			
Sodium	8.02	0.40	1.0	mg/L	8.00		100	85-115			

Duplicate (AJ83557-DUP1)

Source: 18I2172-02

Prepared: 10/11/18 Analyzed: 10/12/18

Calcium	14.1	0.080	1.0	mg/L		14.4			2.45	20	
Magnesium	10.4	0.030	1.0	mg/L		10.6			1.68	20	
Potassium	1.67	0.090	1.0	mg/L		1.71			2.11	20	
Sodium	16.0	0.40	1.0	mg/L		16.1			1.14	20	

Matrix Spike (AJ83557-MS1)

Source: 18I2172-02

Prepared: 10/11/18 Analyzed: 10/12/18

Calcium	22.5	0.080	1.0	mg/L	8.00	14.4	100	70-130			
Magnesium	18.6	0.030	1.0	mg/L	8.00	10.6	101	70-130			
Potassium	9.44	0.090	1.0	mg/L	8.00	1.71	96.7	70-130			
Sodium	23.9	0.40	1.0	mg/L	8.00	16.1	96.9	70-130			

Matrix Spike (AJ83557-MS2)

Source: 18J0171-01

Prepared: 10/11/18 Analyzed: 10/12/18

Calcium	123	0.080	1.0	mg/L	8.00	111	142	70-130			QM-4X
Magnesium	92.8	0.030	1.0	mg/L	8.00	83.2	121	70-130			
Potassium	26.9	0.090	1.0	mg/L	8.00	19.3	95.0	70-130			
Sodium	406	0.40	1.0	mg/L	8.00	384	279	70-130			QM-4X



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ83557 - Metals Digest

Matrix Spike Dup (AJ83557-MSD1)

Source: 1812172-02

Prepared: 10/11/18 Analyzed: 10/12/18

Calcium	22.4	0.080	1.0	mg/L	8.00	14.4	100	70-130	0.0357	20	
Magnesium	18.5	0.030	1.0	mg/L	8.00	10.6	99.2	70-130	0.646	20	
Potassium	9.40	0.090	1.0	mg/L	8.00	1.71	96.1	70-130	0.470	20	
Sodium	23.8	0.40	1.0	mg/L	8.00	16.1	96.4	70-130	0.166	20	



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ83494 - EPA 245.1 Hg Water

Blank (AJ83494-BLK1)			Prepared & Analyzed: 10/09/18								
Mercury	ND	0.020	0.020	ug/L							U
LCS (AJ83494-BS1)			Prepared & Analyzed: 10/09/18								
Mercury	0.286	0.020	0.020	ug/L	0.250		114	85-115			
Duplicate (AJ83494-DUP1)			Source: 1812559-01			Prepared & Analyzed: 10/09/18					
Mercury	ND	0.020	0.020	ug/L		ND				20	U
Matrix Spike (AJ83494-MS1)			Source: 1812559-01			Prepared & Analyzed: 10/09/18					
Mercury	0.255	0.020	0.020	ug/L	0.250	ND	102	70-130			
Matrix Spike Dup (AJ83494-MSD1)			Source: 1812559-01			Prepared & Analyzed: 10/09/18					
Mercury	0.292	0.020	0.020	ug/L	0.250	ND	117	70-130	13.5	20	

Batch AJ83557 - Metals Digest

Blank (AJ83557-BLK1)			Prepared: 10/11/18 Analyzed: 10/12/18								
Tin	ND	0.050	0.050	mg/L							U
LCS (AJ83557-BS1)			Prepared: 10/11/18 Analyzed: 10/12/18								
Tin	0.181	0.050	0.050	mg/L	0.200		90.6	85-115			
Duplicate (AJ83557-DUP1)			Source: 1812172-02			Prepared: 10/11/18 Analyzed: 10/12/18					
Tin	ND	0.050	0.050	mg/L		ND				20	U
Matrix Spike (AJ83557-MS1)			Source: 1812172-02			Prepared: 10/11/18 Analyzed: 10/12/18					
Tin	0.185	0.050	0.050	mg/L	0.200	ND	92.5	70-130			



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

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
---------	--------	-----	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch AJ83557 - Metals Digest

Matrix Spike (AJ83557-MS2)

Source: 18J0171-01

Prepared: 10/11/18 Analyzed: 10/12/18

Tin	0.188	0.050	0.050	mg/L	0.200	ND	94.0	70-130			
-----	-------	-------	-------	------	-------	----	------	--------	--	--	--

Matrix Spike Dup (AJ83557-MSD1)

Source: 18I2172-02

Prepared: 10/11/18 Analyzed: 10/12/18

Tin	0.184	0.050	0.050	mg/L	0.200	ND	92.0	70-130	0.547	20	
-----	-------	-------	-------	------	-------	----	------	--------	-------	----	--



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

Metals by EPA Method 200.8 ICP/MS - Quality Control

Analyte	Result	MDL	Reporting		Spike Level	Source		%REC		RPD	Limit	Notes
			Limit	Units		Result	%REC	Limits	RPD			

Batch AJ83446 - Metals Digest

Blank (AJ83446-BLK1)

Prepared: 10/08/18 Analyzed: 10/09/18

Aluminum	ND	5.0	10	ug/L								U
Antimony	ND	0.20	0.50	ug/L								U
Arsenic	0.205	0.20	0.50	ug/L								J
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	0.121	0.10	0.10	ug/L								U
Copper	6.19	0.40	0.50	ug/L								QB-01
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	2.0	5.0	ug/L								U

LCS (AJ83446-BS1)

Prepared: 10/08/18 Analyzed: 10/09/18

Aluminum	551	5.0	10	ug/L	520	106	85-115
Antimony	21.1	0.20	0.50	ug/L	20.0	106	85-115
Arsenic	21.0	0.20	0.50	ug/L	20.0	105	85-115
Barium	20.8	0.20	0.50	ug/L	20.0	104	85-115
Beryllium	20.1	0.050	0.10	ug/L	20.0	101	85-115
Boron	117	20	50	ug/L	100	117	85-115
Cadmium	21.5	0.060	0.10	ug/L	20.0	108	85-115
Chromium	20.3	0.50	0.50	ug/L	20.0	101	85-115
Cobalt	20.1	0.10	0.10	ug/L	20.0	100	85-115
Copper	22.4	0.40	0.50	ug/L	20.0	112	85-115
Iron	574	10	50	ug/L	520	110	85-115
Lead	20.7	0.060	0.25	ug/L	20.0	104	85-115
Manganese	20.3	2.0	5.0	ug/L	20.0	102	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.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ83446 - Metals Digest

LCS (AJ83446-BS1)

Prepared: 10/08/18 Analyzed: 10/09/18

Molybdenum	20.9	0.070	0.25	ug/L	20.0	105	85-115				
Nickel	20.5	0.30	0.50	ug/L	20.0	102	85-115				
Selenium	22.8	0.30	2.0	ug/L	20.0	114	85-115				
Silver	20.9	0.050	0.10	ug/L	20.0	105	85-115				
Thallium	20.6	0.050	0.10	ug/L	20.0	103	85-115				
Vanadium	20.2	0.50	1.0	ug/L	20.0	101	85-115				
Zinc	110	2.0	5.0	ug/L	100	110	85-115				

Duplicate (AJ83446-DUP1)

Source: 1812589-01

Prepared: 10/08/18 Analyzed: 10/11/18

Aluminum	ND	50	100	ug/L		ND			20		R-01, U
Antimony	ND	2.0	5.0	ug/L		ND			20		R-01, U
Arsenic	6.94	2.0	5.0	ug/L		6.98		0.528	20		
Barium	12.4	2.0	5.0	ug/L		12.4		0.480	20		R-01
Beryllium	ND	0.50	1.0	ug/L		ND			20		R-01, U
Boron	26100	200	500	ug/L		26800		2.52	20		
Cadmium	ND	0.60	1.0	ug/L		ND			20		R-01, U
Chromium	16.4	5.0	5.0	ug/L		15.5		5.32	20		
Cobalt	ND	1.0	1.0	ug/L		ND			20		U
Copper	42.7	4.0	5.0	ug/L		47.2		10.2	20		
Iron	922	100	500	ug/L		874		5.36	20		
Lead	ND	0.60	2.5	ug/L		ND			20		R-01, U
Manganese	ND	20	50	ug/L		ND			20		R-01, U
Molybdenum	225	0.70	2.5	ug/L		243		7.29	20		
Nickel	22.7	3.0	5.0	ug/L		23.1		1.81	20		
Selenium	267	3.0	20	ug/L		265		0.766	20		
Silver	ND	0.50	1.0	ug/L		ND			20		R-01, U
Thallium	ND	0.50	1.0	ug/L		ND			20		R-01, U
Vanadium	ND	5.0	10	ug/L		ND			20		R-01, U
Zinc	ND	20	50	ug/L		ND			20		R-01, U



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

Anions by EPA Method 300.0 - Quality Control

Analyte	Result	MDL	Reporting		Spike Level	Source		%REC		RPD		Notes
			Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch AJ83151 - General Preparation

Blank (AJ83151-BLK1)

Prepared & Analyzed: 10/01/18

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

LCS (AJ83151-BS1)

Prepared & Analyzed: 10/01/18

Sulfate as SO4	23.5	0.20	0.50	mg/L	22.2		106	90-110				
Nitrite as NO2	18.4	0.20	1.0	mg/L	18.2		101	90-110				
Fluoride	5.90	0.070	0.10	mg/L	5.56		106	90-110				
Nitrate as NO3	25	0.20	1.0	mg/L	24.7		103	90-110				

Duplicate (AJ83151-DUP1)

Source: 18J0075-01

Prepared & Analyzed: 10/01/18

Sulfate as SO4	2.10	0.20	0.50	mg/L		2.14			2.08	20		
Fluoride	ND	0.070	0.10	mg/L		ND				20		U
Nitrate as NO3	1.3	0.20	1.0	mg/L		1.5			12.2	20		
Nitrite as NO2	ND	0.20	1.0	mg/L		ND				20		U

Matrix Spike (AJ83151-MS1)

Source: 18J0075-01

Prepared & Analyzed: 10/01/18

Fluoride	5.91	0.070	0.10	mg/L	5.56	ND	106	80-120				
Nitrate as NO3	27	0.20	1.0	mg/L	24.7	1.5	105	80-120				
Nitrite as NO2	18.6	0.20	1.0	mg/L	18.2	ND	102	80-120				
Sulfate as SO4	26.1	0.20	0.50	mg/L	22.2	2.14	108	80-120				

Matrix Spike (AJ83151-MS2)

Source: 18J0025-01

Prepared & Analyzed: 10/02/18

Fluoride	6.11	0.070	0.10	mg/L	5.56	ND	110	80-120				
Sulfate as SO4	24.4	0.20	0.50	mg/L	22.2	ND	110	80-120				
Nitrite as NO2	18.9	0.20	1.0	mg/L	18.2	ND	104	80-120				
Nitrate as NO3	26	0.20	1.0	mg/L	24.7	ND	107	80-120				



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

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
---------	--------	-----	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch AJ83151 - General Preparation

Matrix Spike Dup (AJ83151-MSD1)

Source: 18J0075-01

Prepared & Analyzed: 10/01/18

Fluoride	5.97	0.070	0.10	mg/L	5.56	ND	108	80-120	1.01	20	
Nitrite as NO2	18.9	0.20	1.0	mg/L	18.2	ND	103	80-120	1.15	20	
Sulfate as SO4	26.2	0.20	0.50	mg/L	22.2	2.14	108	80-120	0.642	20	
Nitrate as NO3	28	0.20	1.0	mg/L	24.7	1.5	106	80-120	0.822	20	



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz WM Poly
Project Number: Lot Number P8223CUCS

Reported:
10/16/18 14:53

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.
- QB-01 The method blank contains analyte at a concentration above the MRL; however, the analyte in all associated samples was either ND or greater than 10X the blank concentration.
- 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

